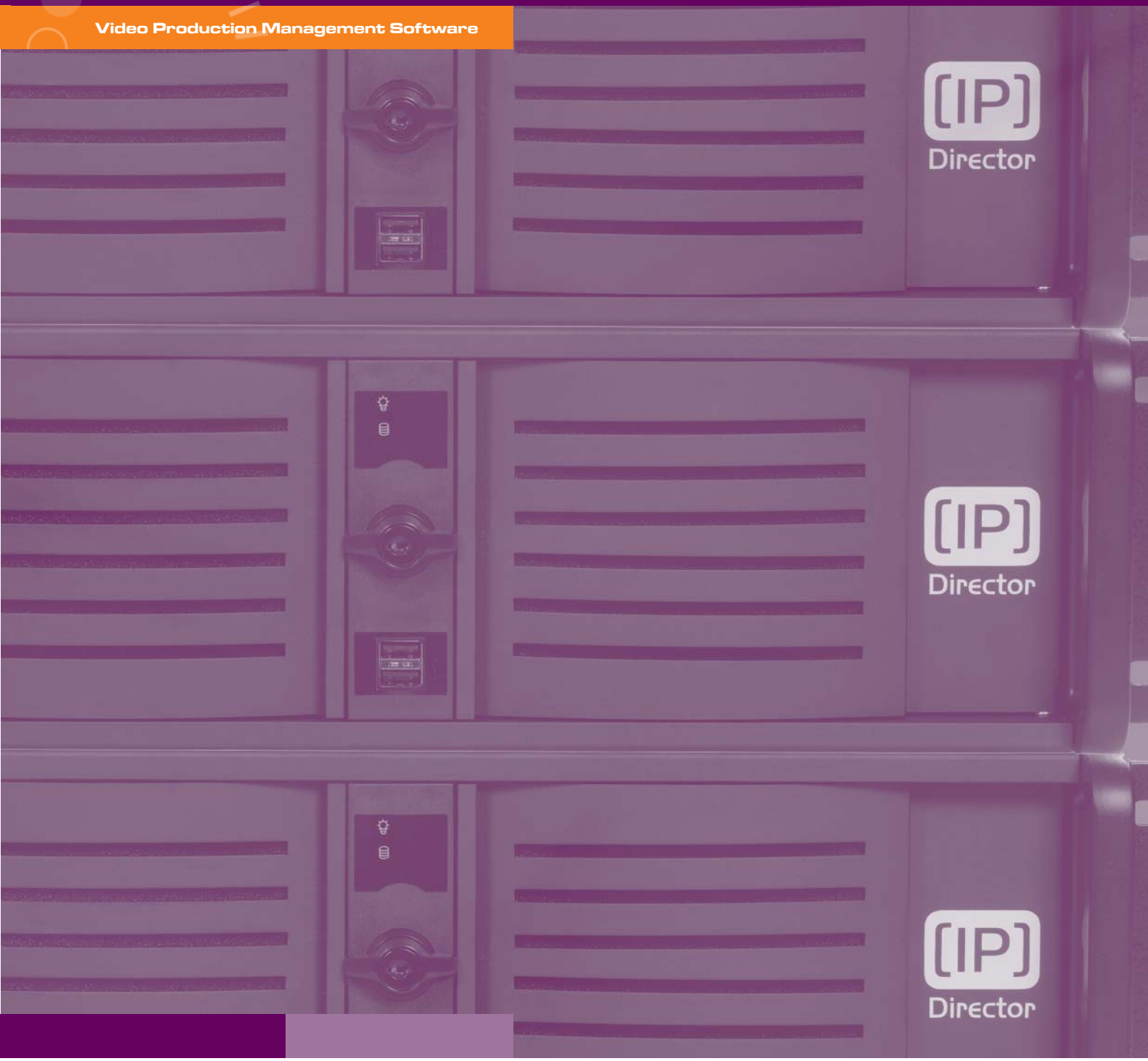
[IP] Director

Technical Reference - Version 4.3 - October 2007

Video Production Management Software



EVS

www.evs.tv

Table of Content

TABLE OF CONTENT **1**

HARDWARE **3**

CONFIGURATION AND CONNECTION **5**

INTRODUCTION 5
CONFIGURATION AND CONNECTION 5
Multiple IP Director Workstations and one XT Server *7*
One IP Director and a Network of XT Servers *8*
Multiple IP Director Workstations and a Network of XT Servers *9*

SETUP OF XT FOR USE WITH IP DIRECTOR **10**

GENERAL REMARK 10
IN "XT SPOTBOX IPDP" MODE 10
IN "MULTICAM LSM" MODE 12

REMOTE INSTALLER **14**

UPGRADE FROM VERSION 02.17.80 OR 02.20.20 14
UPGRADE FROM VERSION 03.13.50 OR 03.22.20 18
START THE REMOTE INSTALLER APPLICATION 20
REMOTE INSTALLER MENU 24
WORKGROUP FUNCTIONALITIES 25
Start All Programs: *25*
Stop All Running Programs: *25*
Install Version: *25*
Configure: *26*
Launch Plugin: *26*
Database: *26*
PLUGIN 27
INSTALL REMOTE INSTALLER VERSION 34
INSTALL PACKAGE 35
DATABASE CONFIGURATION 37
Configure Database *37*
Backup Database *40*
Restore Database *42*
Clean Database *44*
Execute Script *46*
PARAMETERS CONFIGURATION 49
General Parameters Configuration *50*
Services Configuration *54*
Lan and Wan Configuration *55*
SynchroDB Configuration (Load Balancing) *58*
Thumbnails and Grab Configuration *60*
XML Unit Configuration *64*
Send to Configuration *68*
CleanEdit Configuration *72*
Avid TM Configuration *76*
Log Export Configuration *80*
POPULATE HOSTS FILES 83
IPD ROUTING SERVICE MANAGEMENT 87
Configure IPD Routing *87*
Start IPD Routing *91*
Stop IPD Routing *92*
SYNCHRODB MANAGEMENT 93
Configure SynchroDB *93*
Start SynchroDB *96*

Stop SynchroDB ... *97*
IP-DIRECTOR CONFIGURATION ... 98
Configure Ip-Director ... *98*
Start IP-Director ... *99*
Stop IP-Director ... *100*
IP-SCHEDULER ... 101
Start IP-Scheduler ... *101*
Stop IP-Scheduler ... *103*
VTR ENGINE ... 104
Start VTR Engine ... *105*
Stop VTR ENGINE ... *107*

USER MANAGER ... 108

DEFINITIONS ... 108
User ... *108*
Groups and Membership ... *108*
Elements ... *108*
Resources ... *108*
Visibility ... *108*
User Profile ... *109*
START THE USER MANAGER APPLICATION ... 109
Note to the administrator ... *110*
THE MAIN WINDOW ... 111
The Menus ... *111*
Configure Global Settings and Shortcuts ... *113*
Groups and Users ... *115*
The Different Characteristics of a User ... *115*
Elements ... *117*
Preferences: ... *122*
CREATE A NEW GROUP. ... 127
MODIFY (RENAME) A GROUP. ... 128
DELETE A GROUP. ... 128
CREATE A NEW PROFILE ... 129
MODIFY AN EXISTING PROFILE ... 130
DELETE A PROFILE ... 132
CREATE A NEW SETTINGS PROFILE ... 133
MODIFY AN EXISTING SETTINGS PROFILE ... 134
DELETE A PROFILE ... 135
CREATE A NEW USER ... 136
MODIFY A USER ACCOUNT. ... 138
DELETE A USER ACCOUNT. ... 138

IP SCHEDULER ... 139

JOB MANAGER ... 139
CREATE A NEW JOB ... 141
EVS_TO_DB – EVS Logging System ... *142*
IDF_TO_EVS – Convert Start List to Keyword Grid ... *144*
CLIP_CREATION – Scheduled clip creation ... *146*
THUMBNAIL – Create automatic thumbnails ... *147*
EQUIPRO – Handles communication with XML engine ... *147*
GetCleanEditEDL – Receives the CleanEdit edit timelines ... *147*
EDIT A JOB ... 148
DELETE A JOB ... 148
JOB HISTORY ... 149
The jobs list ... *149*
Refresh the list ... *150*
Clear all items ... *150*

CREATING AND REINSTALLING A GHOST OF YOUR SYSTEM ... 151

HOW TO RE-INSTALL YOUR SYSTEM WITH AN EXISTING IMAGE ... 151
HOW TO CREATE A NEW GHOST IMAGE OF YOUR SYSTEM ... 152

HARDWARE

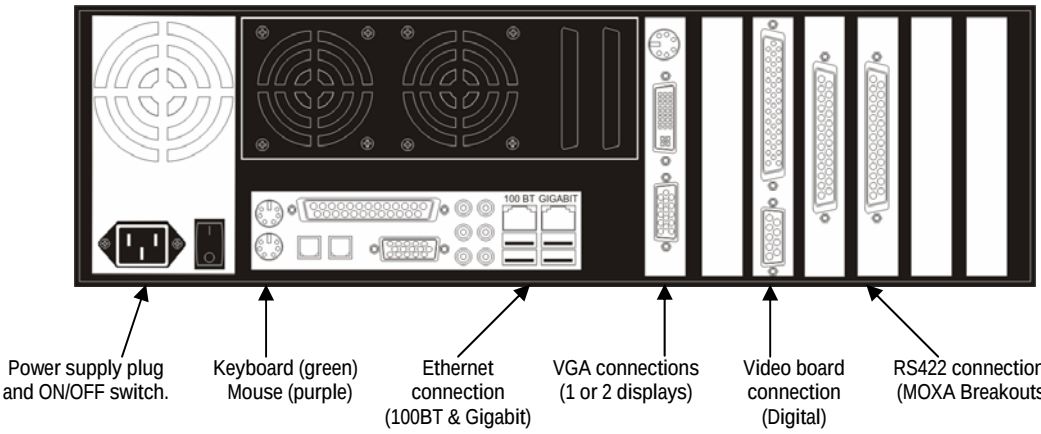
The IP Director software is installed in a workstation operating under Windows XP.

The hardware components are housed in two different rack cabinets.

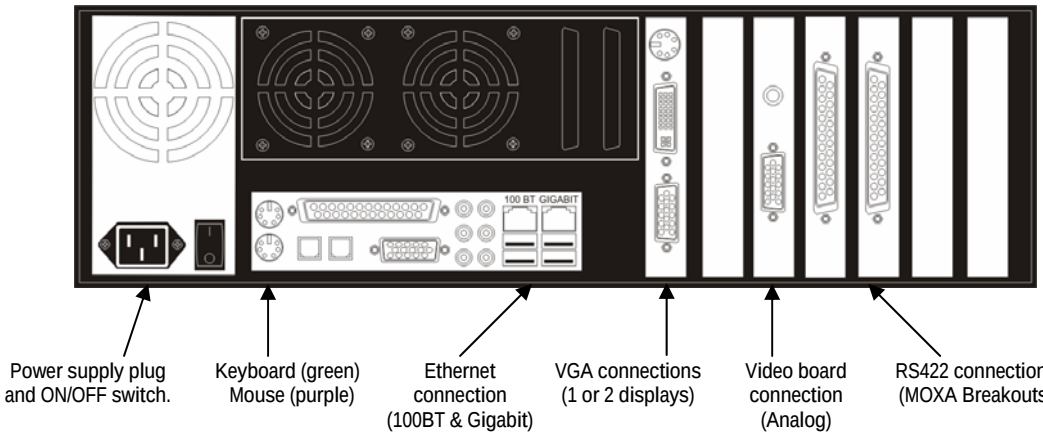
- 3U RACK:

Connections on the rear of the chassis:

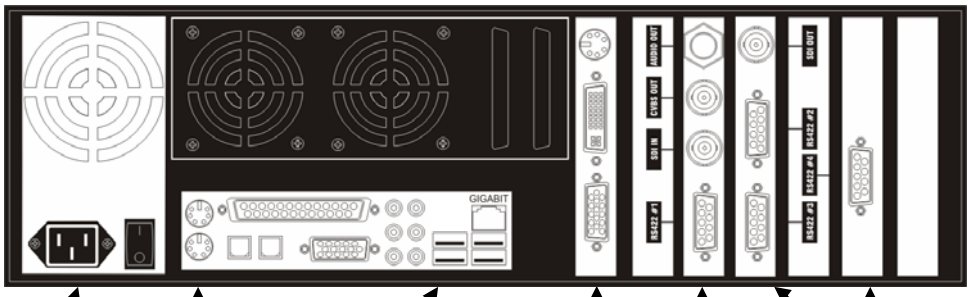
REV 1 -Tyan motherboard & AJA video board (SDI Video Card)


100 BT GIGABIT
Power supply plug and ON/OFF switch.
Keyboard (green) Mouse (purple)
Ethernet connection (100BT & Gigabit)
VGA connections (1 or 2 displays)
Video board connection (Digital)
RS422 connections (MOXA Breakouts)

REV 1 -Tyan motherboard & Osprey video board (Analog Video Card)

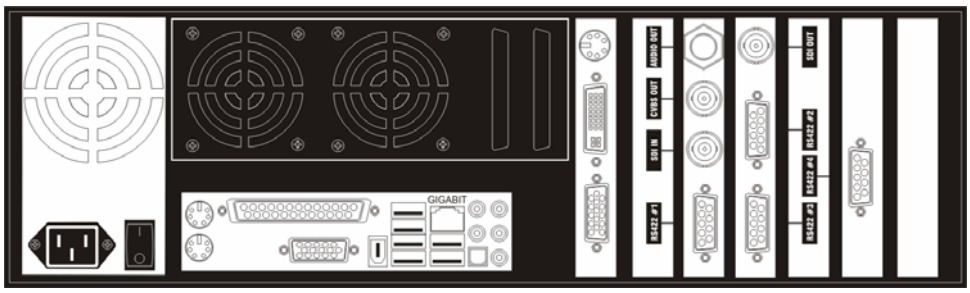

100 BT GIGABIT
Power supply plug and ON/OFF switch.
Keyboard (green) Mouse (purple)
Ethernet connection (100BT & Gigabit)
VGA connections (1 or 2 displays)
Video board connection (Analog)
RS422 connections (MOXA Breakouts)

REV 1 -Tyan motherboard & AVH video board: (SDI Video Card & RS422)



Power supply plug and ON/OFF switch. | Keyboard (green) Mouse (purple) | Ethernet connection (Gigabit) | VGA connections (1 or 2 displays) | Video board connection (Digital in + loop out digital & analog) | RS422 connections (4 ports)

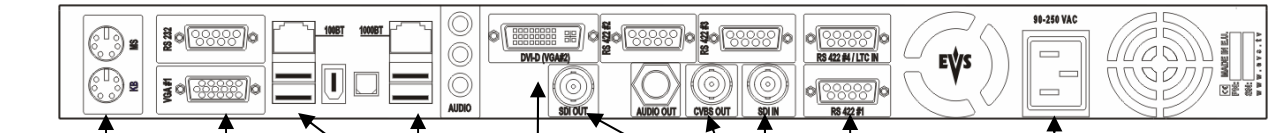
REV 2 -INTEL motherboard & AVH video board: (SDI Video Card & RS422)



Power supply plug and ON/OFF switch. | Keyboard (green) Mouse (purple) | Ethernet connection (Gigabit) | VGA connections (1 or 2 displays) | Video board connection (Digital in + loop out digital & analog) | RS422 connections (4 ports)

- 1U RACK:

Connections on the rear of the chassis:



Keyboard (green) Mouse (purple) | VGA connection 1 (Analog display) | Ethernet connection (100BT & Gigabit) | VGA connection 2 (DVI display) | Video board connection (Digital in + loop out digital & analog out) | RS422 connections (4 ports) | Power supply plug

Note: Second display is a DVI-D connector (digital only).

CONFIGURATION AND CONNECTION

Introduction

The following section describes the physical connections and software configurations which are required to use IP Director with XT Servers. It also includes sample configurations to illustrate various typical uses for the system.

Configuration and Connection

Any IP Director workstation can be connected to one or several XT servers via one physical RS-422 connection. If channel control is required on an individual XT then a RS-422 connection must be made to that XT. Each connection provides access to only one XT for channel control but to the whole XNet that the XT server is present on for clip and train retrieval, together with all database functionality.

Each XT server has its channel configuration set individually by selecting an application from the list on the EVS Menu page of the XT Server's VGA screen.

LSM Configuration:
When using an application with a Multicam LSM base configuration, port configuration and protocols are set from the EVS remote panel.

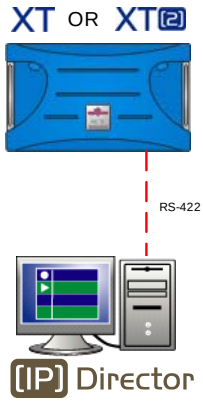
IPDP Server/Spotbox Configuration:
When using an application with an IPDP Server base configuration, port configuration and protocols are set on the parameters (F8) page of the XT Server's VGA screen.

Refer to the Appendix: Setup of XT for use with IP Director for more details.

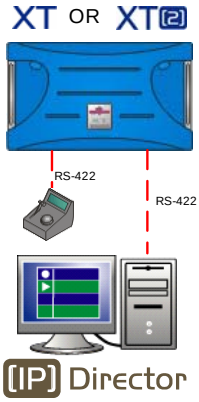
Note: Control of any channel of an individual XT requires that an RS-422 connection exists between a workstation and that XT. All channels of the connected XT can be controlled by any workstation connected by an IP Network to the workstation with the RS-422 link to that XT Server.
If an XT Server has no RS-422 link to an IP Director Workstation network its channels cannot be controlled.

ONE IP DIRECTOR AND ONE XT SERVER

In its most basic configuration, connection is made between one IP Director Workstation and an XT Server using one RS-422 connection



XT SERVER IPDP MODE



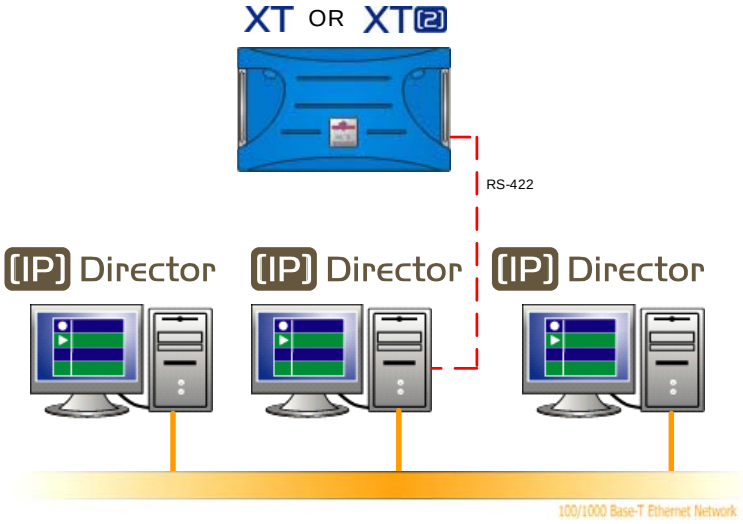
LSM MODE

IPDP mode provides all of the functionality of IP Director to a single XT and allows control of all of the XT channels from IP Director or 3rd party devices, but no control from an LSM remote panel. Configuration of the channels, ports and protocols to be used are set up before the server is operational and the configuration cannot be modified when the server is running.

LSM mode provides all of the functionality of IP Director to a single XT and allows control of all of the XT channels from IP Director or 3rd party devices, but the primary control of Port 1 must be from an LSM remote panel. Configuration of the channels, ports and protocols to be used can be set up from the LSM remote panel when the server is operational and the configuration can be modified when the server is running. A maximum of either 5 record channels and 1 playback channel, or 5 playback channels and 1 record channel can be configured using this mode.

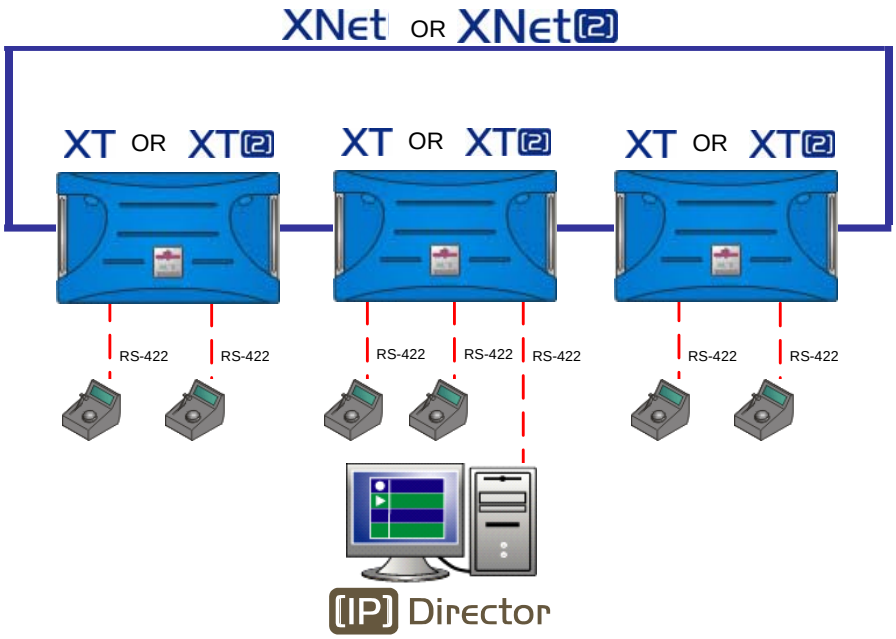
MULTIPLE IP DIRECTOR WORKSTATIONS AND ONE XT SERVER

Several IP Director Workstations can be inter-connected via Ethernet and with only one station of IP Director which has a connection via an RS-422 with an XT server. Any of the IP Director workstations can thus control the channels of the connected XT server, and access and manipulate the database of the single XT. For example the first workstation can be used for clip creation and playback while the second creates a log sheet and another acts as a browse station, collating and organizing the media for later use.



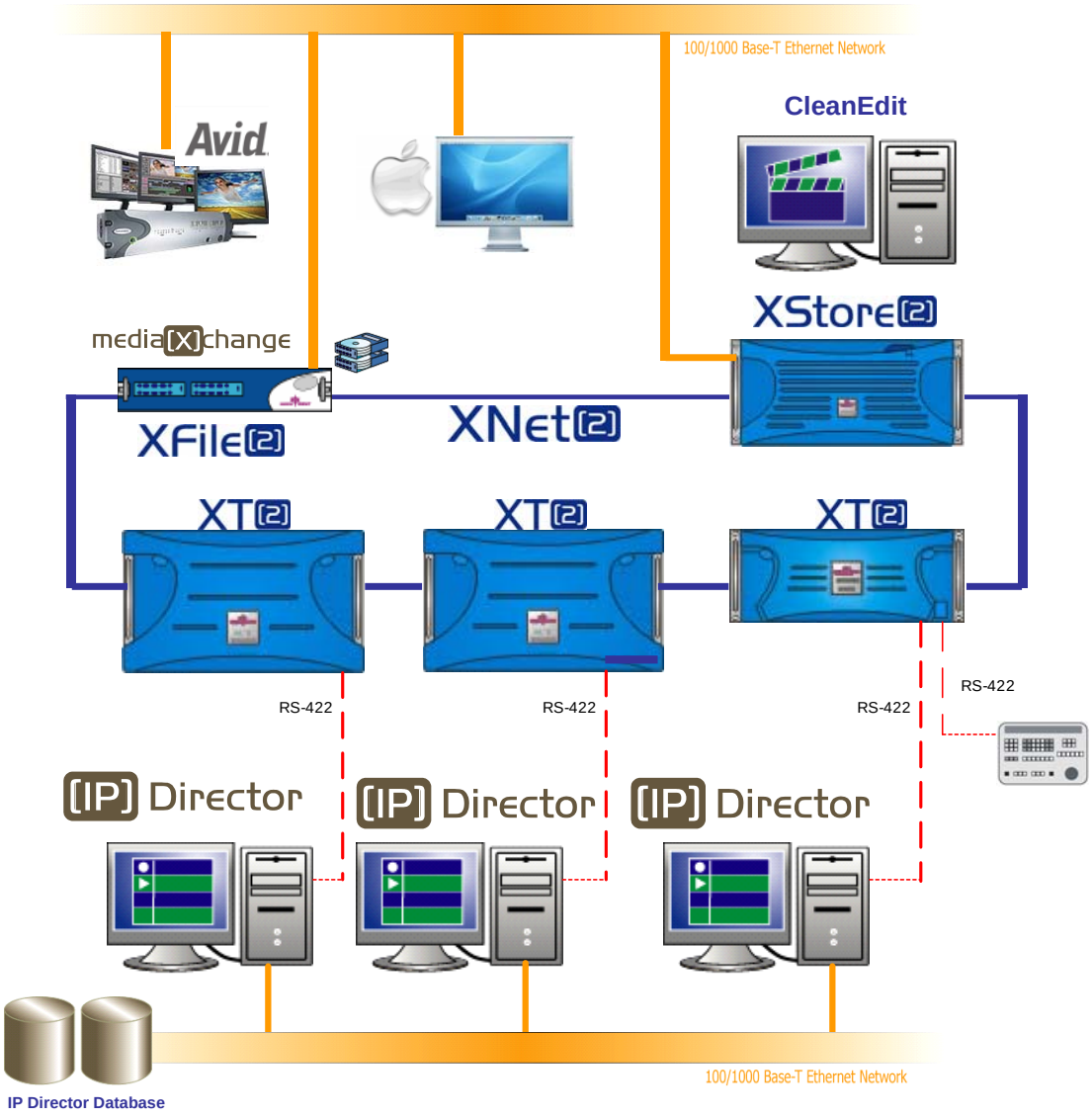
ONE IP DIRECTOR AND A NETWORK OF XT SERVERS

All the media on an X-Net can be accessed. The connection via the RS-422 to a single XT machine gives access to media and data from any XT or X-Files within the network, but **only** control of the channels on the RS-422 connected machine.



MULTIPLE IP DIRECTOR WORKSTATIONS AND A NETWORK OF XT SERVERS

The example below integrates all previous configurations into a complete IP Director environment. The possible combinations of connections of different devices to a workstation of IP Director and an XT or XT[2] server make the architecture easy to connect and very flexible. It is possible to connect a network of up to 29 XT Servers on an XNet to up to 64 IP Director Workstations. Each Workstation is capable of running all IP Director Applications, or different workstations can each run an application each and a central database can collate all data from the IP network. As each XT Server has an RS-422 connection to an IP Director Workstation all channels can be controlled.



Setup of XT for use with IP Director

General remark

This chapter describes the necessary steps to configure a primary and 2nd control configuration for a channel but does not describe all the parameters which are necessary to fully configure an XT server.

Please refer to the XT user's manual for more information on how configuring the server.

In "XT SPOTBOX IPDP" mode

The XT can be configured with all 6 channels controlled via one RS-422 connection allowing any combination between 6 record channels and no play channels and 6 play channels and no record channels;

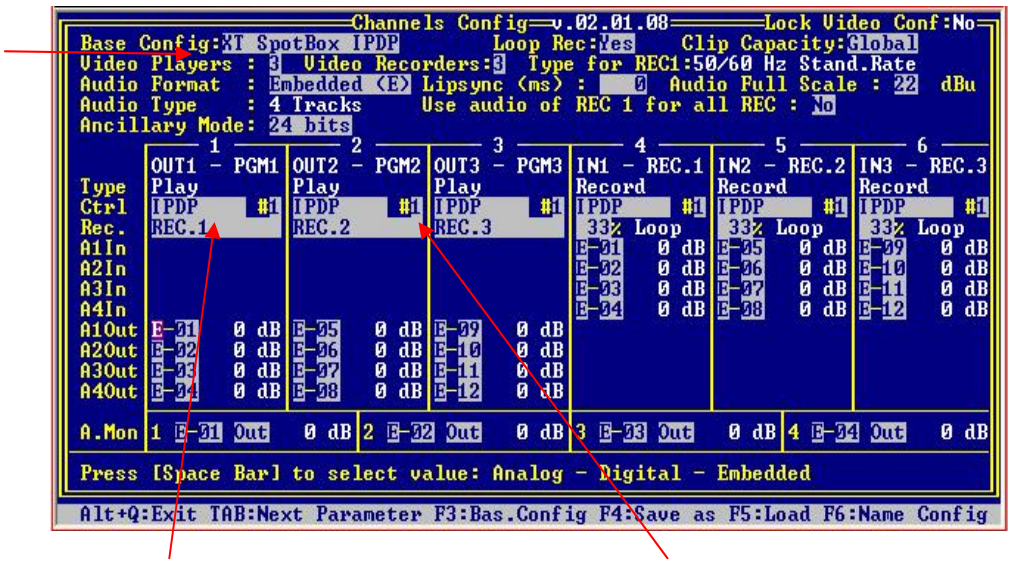
In this mode, the XT serial port connections and assignment of secondary device control (SONY BVW75, VDCP, ODETICS, ...) to the channels must be defined in the EVS configuration menu on the XT server itself.

It means in this mode, the configuration cannot be modified when the server is running.

In the EVS configuration menu, in the application list, select the line corresponding to your configuration, then press F8.

The following window is displayed (the example below is a 3 In and 3 Out configuration) :

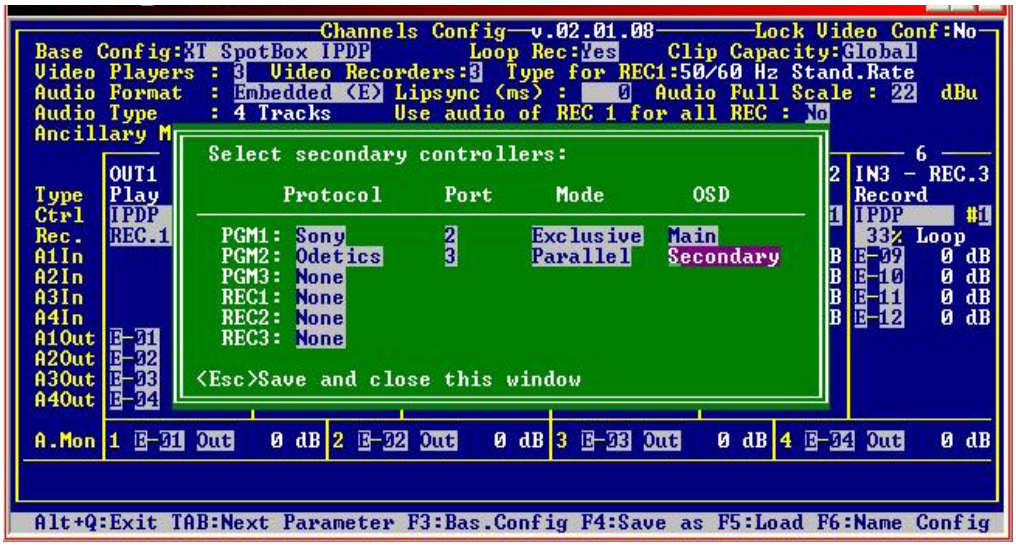
Press F3 to access the channel configuration.


Channels Config v.02.01.08
Lock Video Conf:No
Base Config:XT SpotBox IPDP
Loop Rec:Yes
Clip Capacity:Global
Video Players : 3
Video Recorders:3
Type for REC1:50/60 Hz Stand.Rate
Audio Format : Embedded (E)
Lipsync (ms) : 0
Audio Full Scale : 22 dBu
Audio Type : 4 Tracks
Use audio of REC 1 for all REC : No
Ancillary Mode: 24 bits
1 2 3 4 5 6
OUT1 - PGM1
OUT2 - PGM2
OUT3 - PGM3
IN1 - REC.1
IN2 - REC.2
IN3 - REC.3
Type Play Record
Ctrl IPDP #1
Rec. REC.1 REC.2 REC.3
33% Loop
A1In A2In A3In A4In
A1Out E-01 0 dB
A2Out E-02 0 dB
A3Out E-03 0 dB
A4Out E-04 0 dB
E-05 E-06 E-07 E-08
E-09 E-10 E-11 E-12
A.Mon 1 E-01 Out 0 dB
2 E-02 Out 0 dB
3 E-03 Out 0 dB
4 E-04 Out 0 dB
Press [Space Bar] to select value: Analog - Digital - Embedded
Alt+Q:Exit TAB:Next Parameter F3:Bas.Config F4:Save as F5:Load F6:Name Config

Use the [TAB] and ←, →, ↑, ↓ keys on the keyboard to pass from one parameter to the other. Use SPACE BAR to modify the value of a parameter.

Press F3 to quit the channel configuration zone.

If the channel control is shared with a secondary device, press CTRL+F1 on the keyboard to access the secondary device configuration window.


Channels Config v.02.01.08
Lock Video Conf:No
Base Config:XT SpotBox IPDP
Loop Rec:Yes
Clip Capacity:Global
Video Players : 3
Video Recorders:3
Type for REC1:50/60 Hz Stand.Rate
Audio Format : Embedded (E)
Lipsync (ms) : 0
Audio Full Scale : 22 dBu
Audio Type : 4 Tracks
Use audio of REC 1 for all REC : No
Select secondary controllers:
Protocol Port Mode OSD
PGM1: Sony 2 Exclusive Main
PGM2: Odetics 3 Parallel Secondary
PGM3: None
REC1: None
REC2: None
REC3: None
<Esc>Save and close this window
A.Mon 1 E-01 Out 0 dB
2 E-02 Out 0 dB
3 E-03 Out 0 dB
4 E-04 Out 0 dB
Alt+Q:Exit TAB:Next Parameter F3:Bas.Config F4:Save as F5:Load F6:Name Config

For every channel, select the secondary device. You must specify the communication protocol used by the external device, the com port it is physically connected to, the control mode and which OSD will be displayed on the monitoring output of the channel.

The control mode can be :

- **exclusive** : the main controller and the secondary controller cannot control the channel at the same time. You will always give/get back the control of the channel to/from the main controller interface.
- **parallel** : the main and secondary controller can control the channel at the same time. It will typically be the case when the same operator wants to control a channel from 2 different devices at different times.

When working in parallel mode, you must specify which OSD settings will be used on the monitoring output of the channel : the OSD configuration of the main controller or that of the secondary controller.

In “MULTICAM LSM” mode

In this mode, the XT serial port connections and assignment of secondary device control (SONY BVW75, VDCP, ODETICS, …) to the channels must be defined in the setup menu of the EVS control device.

In the main menu, press SHIFT+D on the remote device to access the setup menu. Then press F7 to access the COM port and main and secondary device control of channels.

```
    Port      Device/Protocol      p.7.1
    RS422 #1  EVS Remote   [F7]ID Type:
[F2]RS422 #2  EVS Remote       ID LSM
[F3]RS422 #3  EVS Remote
[F4]RS422 #4  Sony BVW75
[F5]RS422 #5  Sony BVW75
[F6]RS422 #6  EVS IPDP
[Menu]Quit [Clr+F_]Dft [F9]PgUp [F0]PgDn
```

Page 7.1 allows the user to define the protocol used on each physical port of the XT/XT[2] Chassis.

```
Special Control Settings           p.7.2
        Main    RS422     Second. RS422
PGM1:    EVS Remote -- [F5]IPDP       06
PGM2:[F2]EVS Remote -- [F6]IPDP       06
PGM3:[F3]IPDP       06 [F7]---------- --
PGM4:[F4]IPDP       06 [F8]---------- --

[Menu]Quit [Clr+F_]Dft [F9]PgUp [F0]PgDn
```

Page 7.2 allows the user to define which logical channel will be managed by the IPDirector assigned to the physical port.

```
Special Control Settings           p.7.4
Control type          OSD Display
PGM1:[F1]Parallel      [F5]
PGM2:[F2]Parallel      [F5]
PGM3:[F3]Exclusive     [F5]
PGM4:[F4]Exclusive     [F5]

[Menu]Quit [Clr+F_]Dft [F9]PgUp [F0]PgDn
```

Page 7.4 allows the user to specify whether the 2 controlling devices for the chosen channel will control exclusive or parallel.

In this mode, the configuration can be changed even when the server is running.

The particularities of that mode are :

- One EVS remote device must be connected on RS422 #1
- the EVS remote device must be defined as the main controller of PGM1. The IP Director can be defined as secondary controller of this channel.
- the recorders can only be started/stopped from the EVS remote device. The IP Director applications cannot start nor stop the recorder channels.
- The server can be set to be used as a standard LSM and then have up to five channels controlled using one RS-422 port.

Please refer to the LSM user's manual for more information on how to define main and secondary devices control of channels.

REMOTE INSTALLER

The Remote Installer allows you to install and configure all IP director workstations on the network from any IP Director workstation.

The tool allows any administrator to remotely manage (configure, start, stop, ...) all IP Director workstations on the network.

The remote installer is a service and a configuration application.

The service is started automatically at start up and the configuration application (the GUI), can be run from the XP tool bar but can only be run on one workstation at one time.

Upgrade from version 02.17.80 or 02.20.20

Note All IP Director Workstation coming from factory has Remote Installer preinstalled. Nevertheless Remote Installer installation is required when upgrading from IP Director Version 2.

In order to correctly upgrade your IP Director from version 02.17.80 or 02.20.20 to version 04.31.80 without losing any data, the following steps must be performed.

1) First, you have to uninstall the IP Director applications existing on all network workstations if an existing installation exists

Stop all IP Director Services (SynchroDB, IP-Routing and IP-Scheduler).
Go to Windows Settings → Control panel → Add or Remove Programs
Select and uninstall XSecure Manager 01.00.01 (or any version < 01.00.07).
Select and uninstall Contour Design Shuttle Pro.
Select and uninstall IP-Director.

2) Copy the file 04.31.80.zip on local drive into both C: and R: partitions and unzip the file in the Install Software folder.

3) Execute the "Setup.exe" on IP Director Workstations where it is not yet installed.

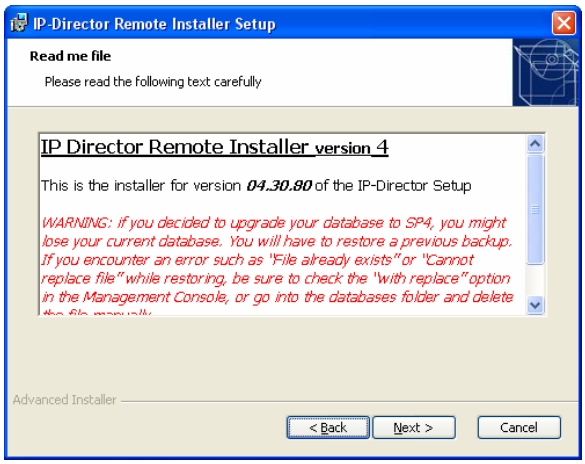
4) Follow these steps in the Setup Wizard:

IP-Director Remote Installer Setup
Welcome to the IP-Director Remote Installer Setup Wizard
The Setup Wizard will allow you to change the way IP-Director Remote Installer features are installed on your computer or even to remove IP-Director Remote Installer from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
< Back
Next >
Cancel

Click Next >

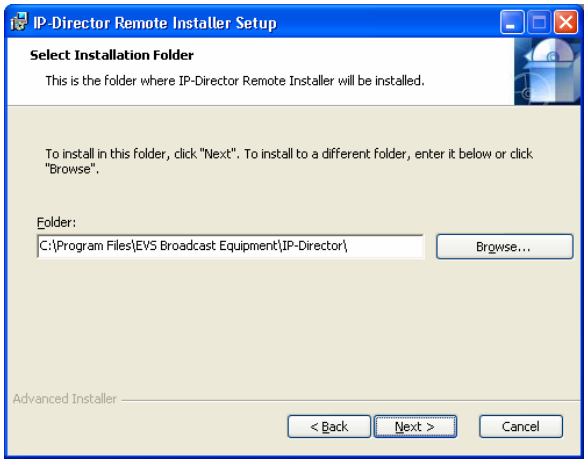
IP-Director Remote Installer Setup
End-User License Agreement
Please read the following license agreement carefully
USER LICENSE AGREEMENT FOR EVS BROADCAST EQUIPMENT SOFTWARE
IMPORTANT-READ CAREFULLY:
This EVS Broadcast Equipment End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a
I accept the terms in the License Agreement
I do not accept the terms in the License Agreement
Advanced Installer
< Back
Next >
Cancel

Select “I accept the terms…” and click Next >


IP-Director Remote Installer Setup
Read me file
Please read the following text carefully
IP Director Remote Installer version 4
This is the installer for version 04.30.80 of the IP-Director Setup
WARNING: if you decided to upgrade your database to SP4, you might lose your current database. You will have to restore a previous backup. If you encounter an error such as "File already exists" or "Cannot replace file" while restoring, be sure to check the "with replace" option in the Management Console, or go into the databases folder and delete
Advanced Installer
< Back
Next >
Cancel

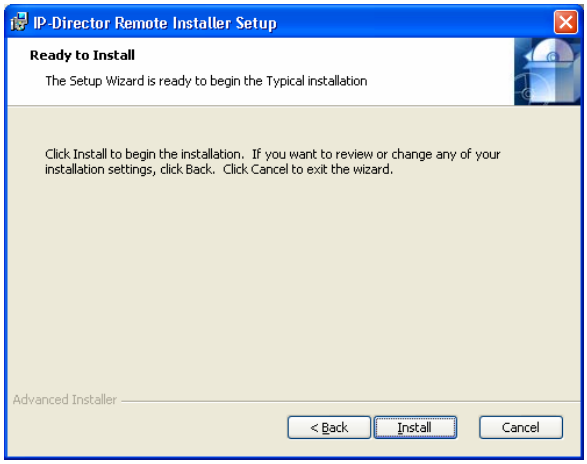
Click Next >

Install all prerequisites needed (ex: XSecure Manager 1.00.07)

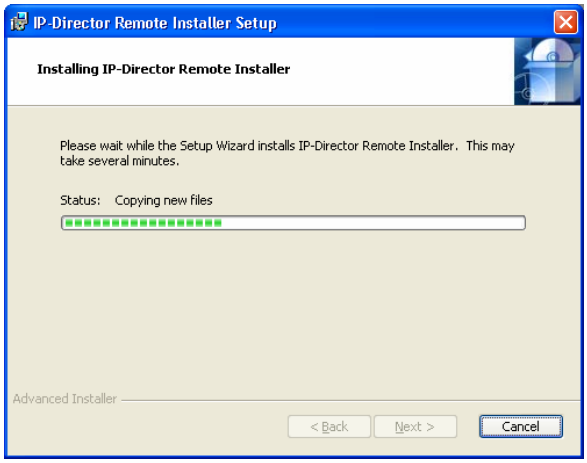

IP-Director Remote Installer Setup
Select Installation Folder
This is the folder where IP-Director Remote Installer will be installed.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\EVS Broadcast Equipment\IP-Director\
Browse...
Advanced Installer
< Back
Next >
Cancel

Click Next >

Note We recommend using the default installation folder.


IP-Director Remote Installer Setup
Ready to Install
The Setup Wizard is ready to begin the Typical installation
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Advanced Installer
< Back
Install
Cancel

Click Install


IP-Director Remote Installer Setup
Installing IP-Director Remote Installer
Please wait while the Setup Wizard installs IP-Director Remote Installer. This may take several minutes.
Status: Copying new files
Advanced Installer
< Back
Next >
Cancel

Wait during installation files and click on Finish

IP-Director Remote Installer Setup
Completing the IP-Director Remote Installer Setup Wizard
Click the Finish button to exit the Setup Wizard.
< Back
Finish
Cancel

Reboot all the IPD workstations.

5) Open the remote installer application on one IP Director workstation and install the package 04.31.80.ipd (see Install Version Chapter)

6) Backup your database to a file, right click on Database and select backup.
Confirm the backup filename and select backup.

7) Upgrade and configure your Database (See Database Configuration Chapter)

Execute the script Upgrade_02_12_20_to_04_30_60.sql

Reboot the IPD workstation.

Note After a Remote Installer setup, a "Choose Network Interface" window appears. Choose the right network interface to reach the database (see Remote Installer Menu chapter)

Note After an upgrade to version 4, check your Xsecure codes. Production Playlist function is protected by a new code. Even if you had a full option IPDirector, you may have to ask EVS for a Production Playlist code (50). Please contact our office for more information.

Note After the "Install Version/Install Package" process is used on the workgroup, or "Send Version" to an individual IPDirector, the Loopback adapter is automatically disabled. This software network adapter was used since version 3 for standalone operations. This adapter caused latencies on the IPD network and inside the IPD application.

Upgrade from version 03.13.50 or 03.22.20

Note All IP Director Workstation coming from factory has Remote Installer preinstalled. Nevertheless Remote Installer installation is required when upgrading from IP Director Version 3.

In order to correctly upgrade your IP Director from version 03.13.50 or 03.22.20 to version 04.31.80 without losing any data, the following steps must be performed.

1) First, you have to uninstall some applications existing on all network workstations.

Stop all IP Director Services (SynchroDB, IP-Routing and IP-Scheduler).
Go to Start Menu -> Settings → Control panel → Add or Remove Programs
Select and uninstall XSecure Manager (any version < 01.00.07).
Select and uninstall Contour Design Shuttle Pro.

2) Copy the file 04.31.80.zip on local drive into both C: and R: partitions and unzip the file in the Install Software folder.

3) Execute the Version 4 "Setup.exe" on IP Director Workstations where it is not yet installed.

4) Follow the steps in the Setup Wizard (see previous chapter for details)

Install all prerequisites needed (ex: XSecure Manager 01.00.07)
When all prerequisites are display as "Don't Install", press Cancel to exit setup.
Reboot the IPD workstation.

Note You do not need to install the Osprey or AJA Video drivers if these boards are not physically present in the system.

5) From the lower right hand task-bar, open the remote installer application on one IP Director workstation

6) Open the remote installer application.

Wait for all Remote Installers to be updated in the workgroup.
Once complete, select "Restart All Remote Installer" from the top menu bar.

Note If you insert IP Director V3 workstations in a V4 workgroup, they will be updated to the current Remote Installer version. If you want to keep IP Director V3 workstations, isolate the workstations in a separate workgroup.

7) Open the remote installer application again after restart
Verify all IPDirector workstations now appear in the window
Install the package 04.31.80.ipd
Wait for all workstations to be updated.

8) Upgrade your Database.

First, we strongly recommend creating a backup of your current database before beginning this step.

9) Backup your database to a file, right click on Database and select backup.
Confirm the backup filename and select backup.

Next, use the appropriate scripts to upgrade your database:

Upgrade from version 03.13.50 (3.11.20 database)

Execute the script Upgrade_03_11_20_to_03_11_60.sql
Execute the script Upgrade_03_11_60_to_04_30_60.sql

Upgrade from version 03.22.20 (3.11.60 database)

Execute the script Upgrade_03_11_60_to_04_30_60.sql

Note After a Remote Installer setup, a “Choose Network Interface” window appears. Choose the right network interface to reach the database (see Remote Installer Menu chapter)

Note After an upgrade to version 4, check your Xsecure codes. Production Playlist function is protected by a new code. Even if you had a full option IPDirector, you may have to ask EVS for a Production Playlist code (50). Please contact our office for more information.

Note After the “Install Version/Install Package” process is used on the workgroup, or "Send Version" to an individual IPDirector, the Loopback adapter is automatically disabled. This software network adapter was used since version 3 for standalone operations. This adapter caused latencies on the IPD network and inside the IPD application.

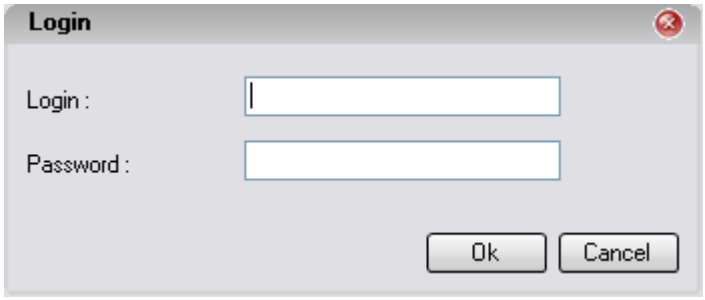
Start the Remote Installer application.

To launch the IP-Director Remote Installer,

On one machine, right click on this icon in the XP toolbar:

Then choose the option “Open Configurator” in the contextual menu

The login window appears.



Enter the login and password which have been provided by your administrator.

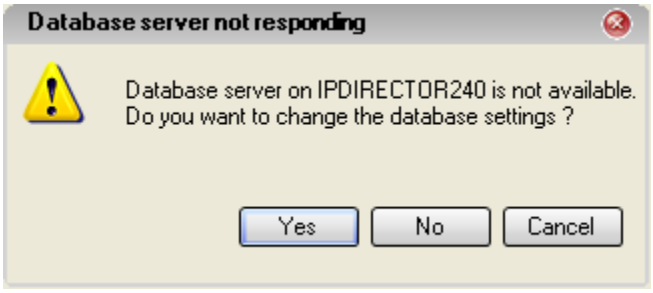
Note for the administrator: If you are the administrator and if you log on for the first time, you must use the following login and password (case sensitive):

Login: administrator
Password: evs

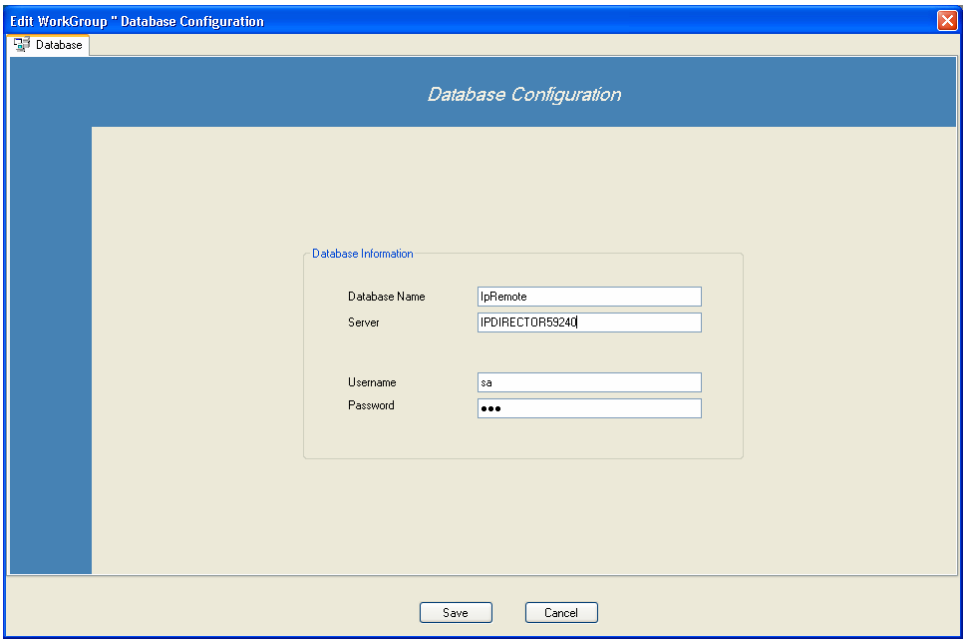
Note If no valid database has been restored, the administrator/evs login/password will not work.

If your workstation is not connected anymore to the last used database:

Since Version 4, this window appears:



Click Yes, to open the Database Configuration window:



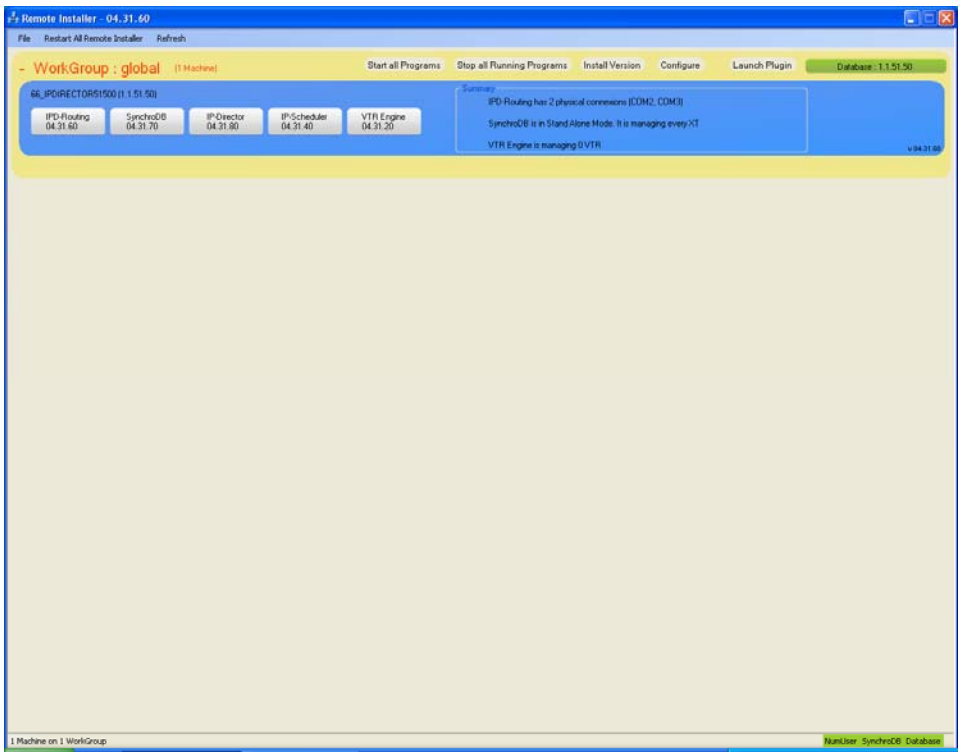
Modify the Server name (Computer Name or IP address) to specify your new database containing a valid Login/Password.

Note All IP Director Workstations have their own database. In Stand alone mode, specify the computer name or the IP address of your workstation.

You have started the application, the Remote Installer icon in your toolbar changes like this:

This Remote Installer splash window opens:

Once started, you can see all the workstations belongings to the Network:



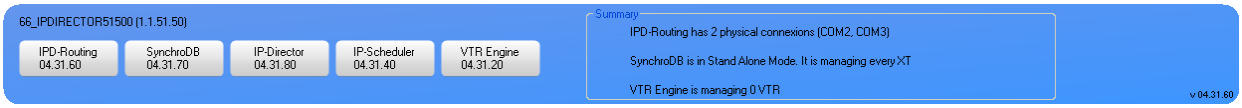
More than one workgroup visible in the application is due to a configuration issue. The lower left corner shows information about number of machine in the network.

1 Machine on 1 WorkGroup

Each item represents an IP Director workstation and is characterized by its computer Name and its IP Address:

66_IPDIRECTOR51500 (1.1.51.50)

Each machine of the network is represented like this:



An item is divided in 5 modules:

- IPD-Routing: Used to start the IPD-Routing Service (see IPD Routing service management Chapter)
- SynchroDB: Used to start the Synchro DB Service (see Synchro DB Management Chapter)
- IP-Director: Used to start the Ip-Director Application (see Ip-Director Configuration Chapter)
- IP-Scheduler: Used to start the IP-Scheduler Service (see IP-Scheduler Chapter)
- VTR Engine: Used to start the VTR Engine Service (see VTR Engine Chapter)

A YELLOW colour background means that some Ip-Director software components have incompatible versions or that some workstations don't have the same version installed.

A BLUE colour background indicates the machine has the same version as the first workstation in the list and no conflict is detected.

A RED colour background indicates a conflict has been detected in the configuration settings (SynchroDB XT management, Routing number, DB configuration…)

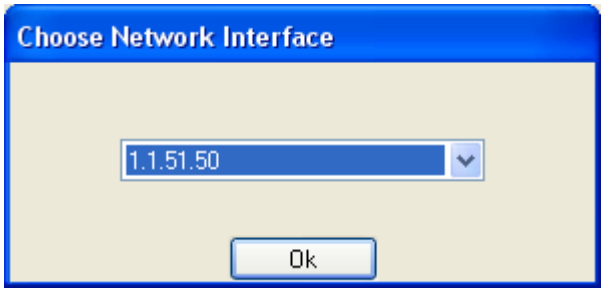
At the far right side of each workstation, the remote Installer Version number is displayed: v 04.31.60

This information can be useful to check if all workstations have the right version of Remote Installer. This Version number should correspond with the Version number info shown in the upper left corner of the application

Remote Installer menu

File: Used to exit the Remote Installer.

Change Network Interface: Used to specify the network interface connected with the database and the other workstations.



Select the IP address corresponding to the right interface if you forgot to specify it after installing the Remote Installer setup.

Note This option appears only if several interfaces are available on the workstation.

Restart All Remote Installer: Used to send a restart command to the Remote Installer of each workstation.

Refresh: Used to refresh the listed workstations detected by the Remote Installer. (Refresh is automatically done with a time out).

Workgroup functionalities

For one workgroup you have 5 functionalities.

START ALL PROGRAMS:

Click this button to start all programs (IPD-Routing, SynchroDB, IP-Director and IP-Scheduler, VTR Engine if Auto Start is enable) on all IP Director workstations of your workgroup.

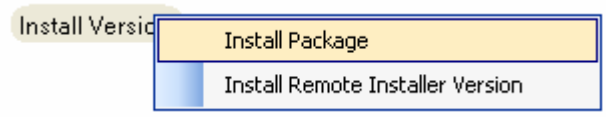
STOP ALL RUNNING PROGRAMS:

Click this button to stop all running programs (IPD-Routing, SynchroDB, IP-Director, IP-Scheduler and VTR Engine) on all workstations of your workgroup.

INSTALL VERSION:

Click this button to install a new *Package* or a new *Remote Installer Version*. This installation is applied to IP Director workstations within the current workgroup.

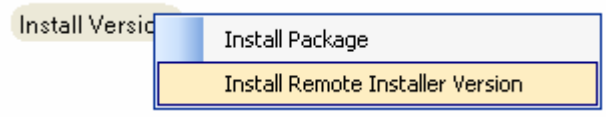
- Select *Install Package* to install an IP Director package (the .ipd file)



The package will be imported and automatically activated. A package includes IPD Routing, SynchroDB, IP Director, IP Scheduler and VTR Engine compatible versions.

Refer to the **Install Package** paragraph below in this document for more information.

- Select *Install Remote Installer Version* to force the installation of the current Remote Installer version.



The Remote Installer Version will be deployed on all IP Director workstations within the current workgroup.

Refer to the **Install Remote Installer Version** paragraph below in this document for more information.

CONFIGURE:

Click this button to configure all the workstations of your workgroup. (See also General Parameters Configuration Chapter)

LAUNCH PLUGIN:

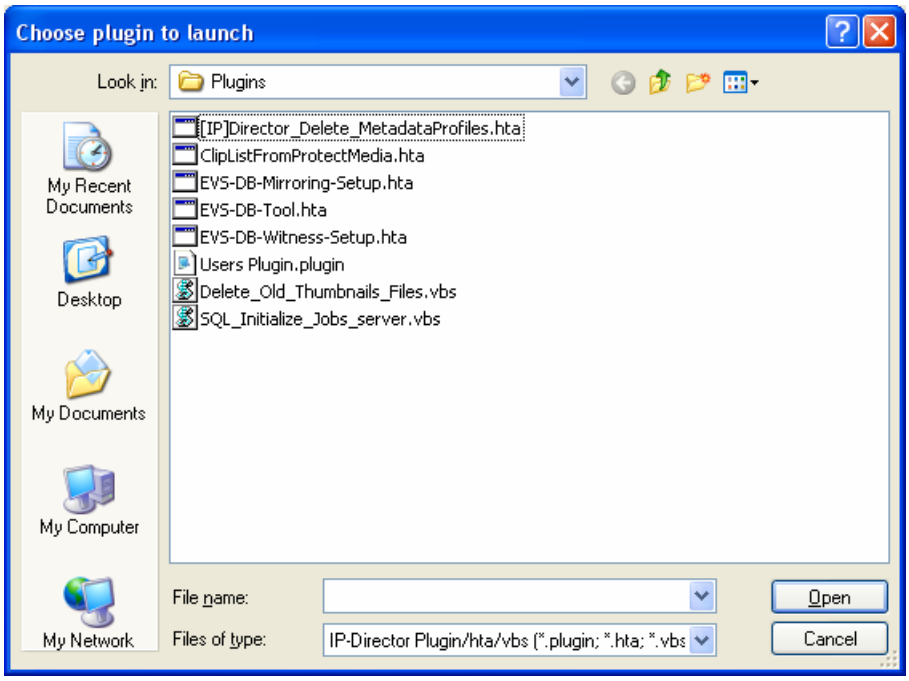
This button allows you to launch plug-in.
(See also Plugin Chapter)

DATABASE:

Right click this button to configure your database, to backup your database, to restore your database, to clean your database or to execute script. (See Database Configuration Chapter for more information)

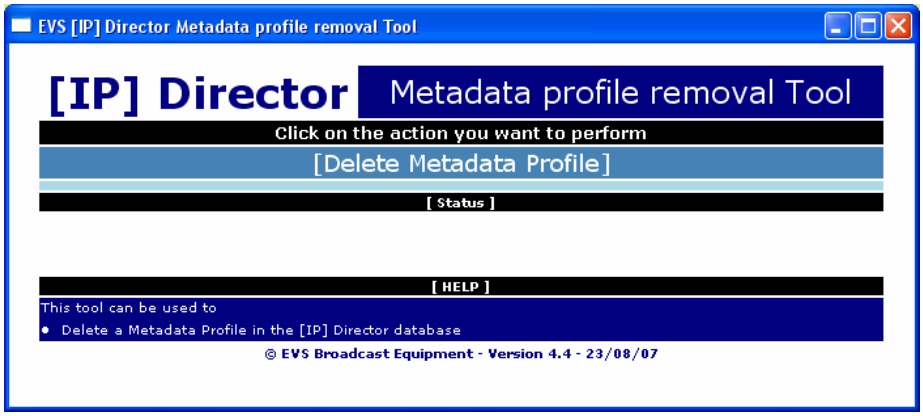
Plugin

Click Launch plugin to open a browser of Plugins Folder.



Different plugins are available:

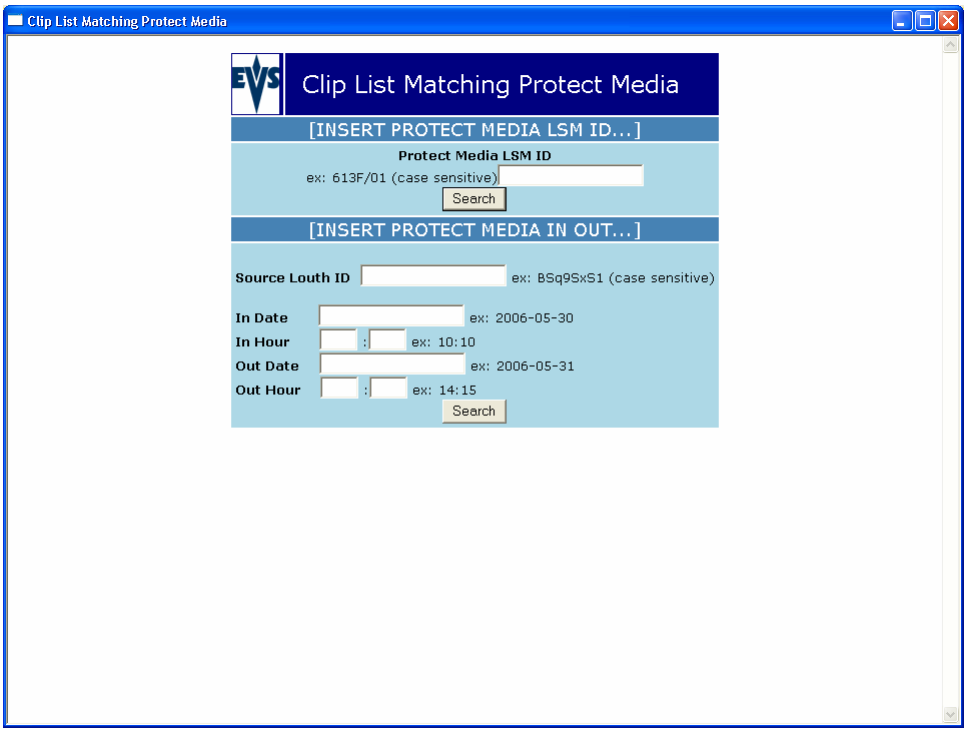
- [IP]Director_Delete_MetadataProfiles.hta: this plugin is used to delete a Metadata Profile in the IP Director database. (See Metadata Profile Chapter in the User Manual for more information)


EVS [IP] Director Metadata profile removal Tool
[IP] Director
Metadata profile removal Tool
Click on the action you want to perform
[Delete Metadata Profile]
[Status]
[HELP]
This tool can be used to
Delete a Metadata Profile in the [IP] Director database
© EVS Broadcast Equipment - Version 4.4 - 23/08/07

[Delete Metadata Profile]

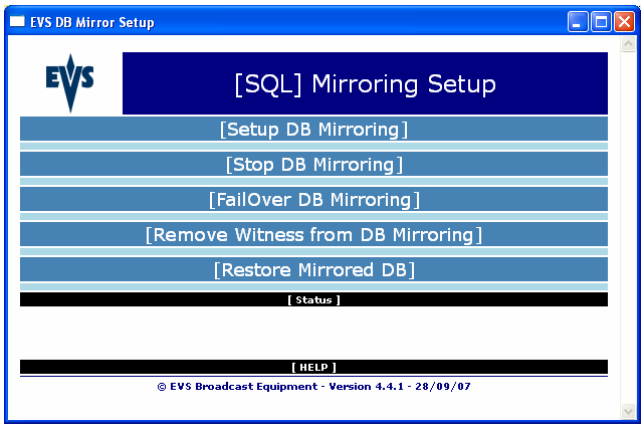
Select a Metadata Profile in the list and click on *Delete Profile* to erase it from the database.

- ClipListFromProtectMedia: this plugin helps you to identify the sub clips created on Protect Media clips (or master clips) and to delete them on the server. It's useful to increase remaining time on the server.



- Evs-DB-Mirroring-Setup: This plugin is a small HTA file (HTML Application). It has been developed to easily perform administrative tasks related to DB mirroring on SQL Server 2005. The plugin should be used locally on the SQL Server.

The available administrative tasks are displayed in the following screenshot:



[Setup DB Mirroring]

Initiate Database mirroring between two SQL2005 servers and configure the witness workstation.

[Stop DB Mirroring]

Stop Database mirroring.

[FailOver DB Mirroring]

Initiate a manual failover. Mirroring roles will be switched between the two SQL servers.

[Remove Witness from DB Mirroring]

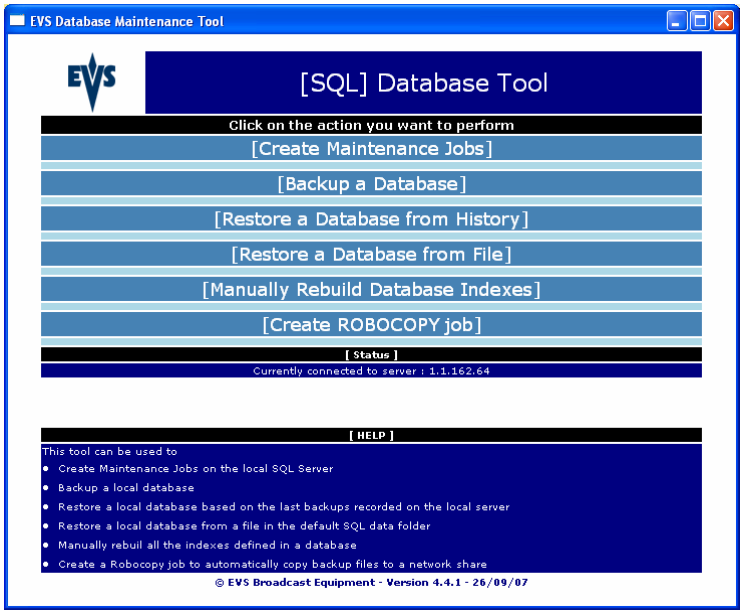
Removes the witness configuration on the chosen mirrored database.

[Restore Mirrored DB]

Restores a Database locked by a mirroring process, from a backup file.

- EVS-DB-Tool.hta: this plugin can create maintenance Jobs on the local SQL Server, Create Log Shipping Replication between two SQL Servers, Backup a local database or Restore a local database based on the last backups recorded on the local server.

Select this file and click Open, this window appears:


EVS Database Maintenance Tool
[SQL] Database Tool
Click on the action you want to perform
[Create Maintenance Jobs]
[Backup a Database]
[Restore a Database from History]
[Restore a Database from File]
[Manually Rebuild Database Indexes]
[Create ROBOCOPY job]
[Status]
Currently connected to server : 1.1.162.64
[HELP]
This tool can be used to
Create Maintenance Jobs on the local SQL Server
Backup a local database
Restore a local database based on the last backups recorded on the local server
Restore a local database from a file in the default SQL data folder
Manually rebuil all the indexes defined in a database
Create a Robocopy job to automatically copy backup files to a network share
© EVS Broadcast Equipment - Version 4.4.1 - 26/09/07

[Create Maintenance Jobs]

This part of the tool creates the maintenance jobs explained in the first part of the document.
Jobs created are:

- A DB Full backup every hour
- A DB Transaction Log backup every 15 minutes
- A DB Index rebuild every day at 02:00
- The system database full backup every day at 03:00
- A MSDB cleanup and automatic backup every 15 minutes

[Backup a Database]

Creates a manual full or transaction log backup from the specified database

[Restore a Database from History]

Restores a database from the lasts backups. The backup file list is obtained from the local SQL Server. It can be used to easily restore a previous version of the local database but not to restore a database coming from another server.

[Restore a Database from File]

Restores a database contained in a backup file.
The database will be restored with its original name in the local server default directory.
This part of the tool is specially designed to restore databases coming from another server especially with different database folder path.

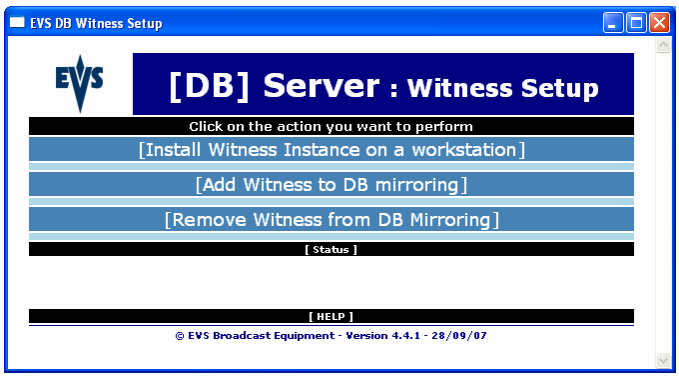
[Manually Rebuild Database Indexes]

Rebuild all the indexes defined in the specified database

[Create ROBOCOPY Job]

Creates a job that replicates a folder to a network share (typically to replicate backup files to another storage)

- EVS-DB-Witness-Setup.hta: this plugin helps you to install and configure a Witness Instance SQL Server 2005 Express to survey a mirrored SQL database. It MUST be run from a SQL server, and should NOT be run directly from an IPDirector workstation to complete correctly.


EVS DB Witness Setup
[DB] Server : Witness Setup
Click on the action you want to perform
[Install Witness Instance on a workstation]
[Add Witness to DB mirroring]
[Remove Witness from DB Mirroring]
[Status]
[HELP]
© EVS Broadcast Equipment - Version 4.4.1 - 28/09/07

[Install Witness Instance on a workstation]

This part of the tool installs SQL Server 2005 Express Edition on the specified workstation with the entire configuration needed to support SQL Mirroring Witness role.

[Add Witness to DB Mirroring]

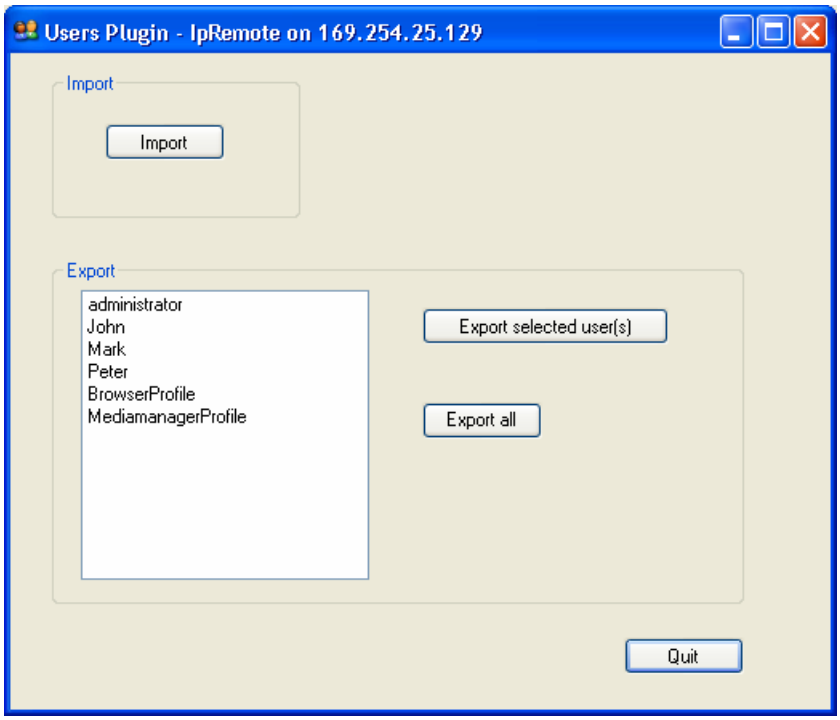
After installing the Witness Instance on a workgroup, this tool configures the DB Server with the Witness settings to complete the quorum requirements of the SQL 2005 Mirroring with failover.

[Remove Witness from DB Mirroring]

Removes the witness configuration on the chosen mirrored DB.

- Users Plugin.plugin: can import/export user(s) or profile(s)

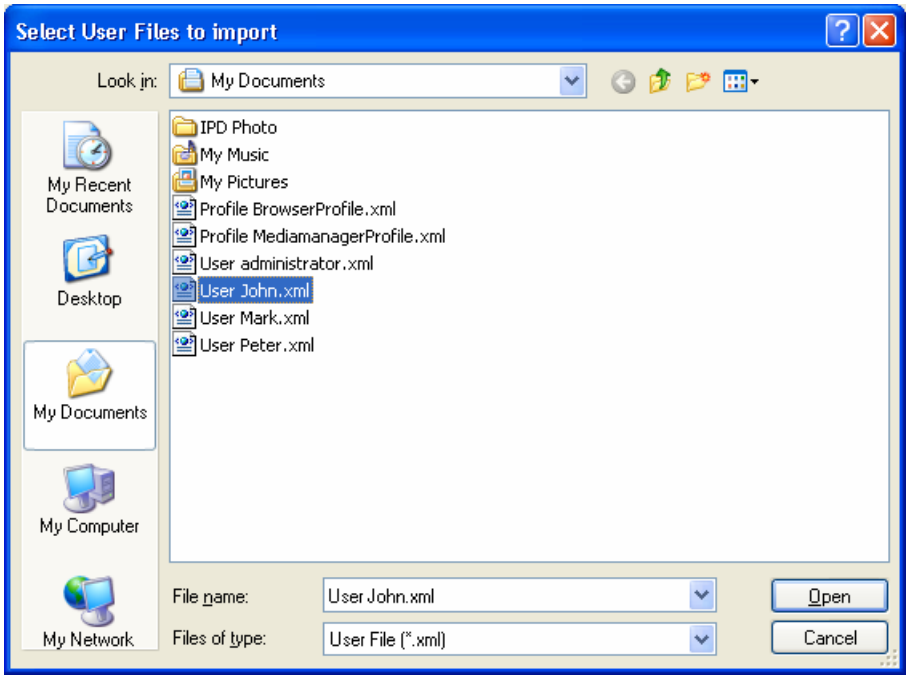
Select the Users Plugin.plugin application and click Open.
The application opens.



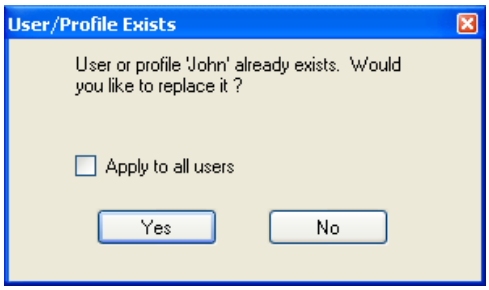
You have the possibility to export/import user(s)/profile(s).

Import:

To import user(s) /profile(s), click the Import button. A browser window appears.



Select the folder where are saved the User XML files. Choose user(s) you want to import and click Open. The import is done.
If the user or profile already exists in the database a warning appears:

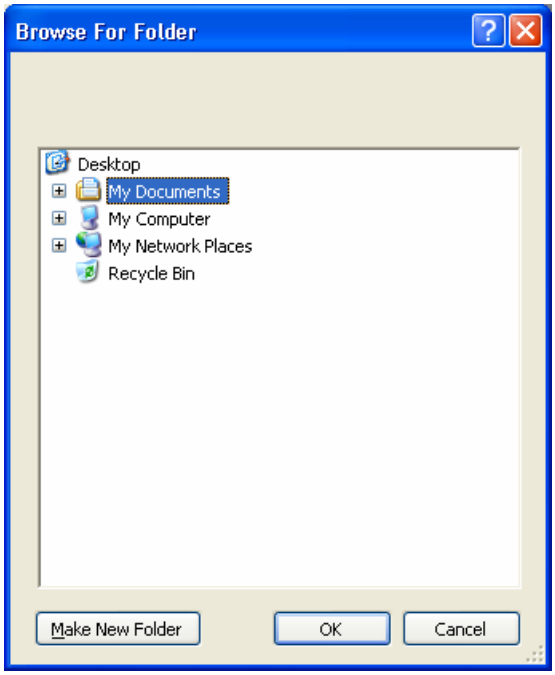


Choose Yes if you want to replace it or No if you don't want to overwrite this user or profile(s).

This window confirms successful importation.

Export:

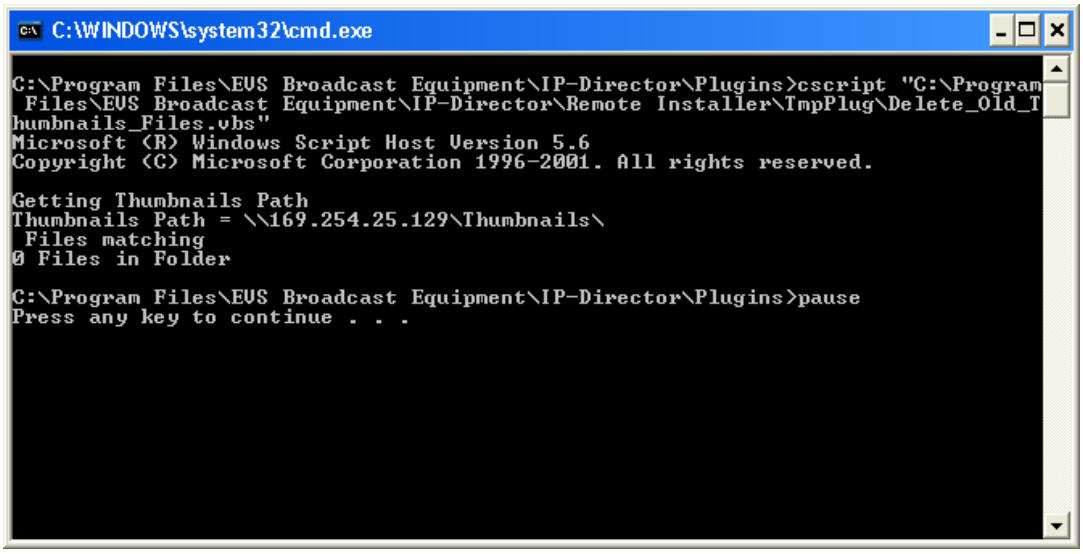
To export specific user(s) /profile(s), select them in the users' list and click the "Export selected user(s)" button. A browser window opens.



Select an export Users folder and click OK. A XML file is created for each selected user. To export all users, click the "Export all" button and choose the export Users folder in the browser window. A XML file is created for each user.

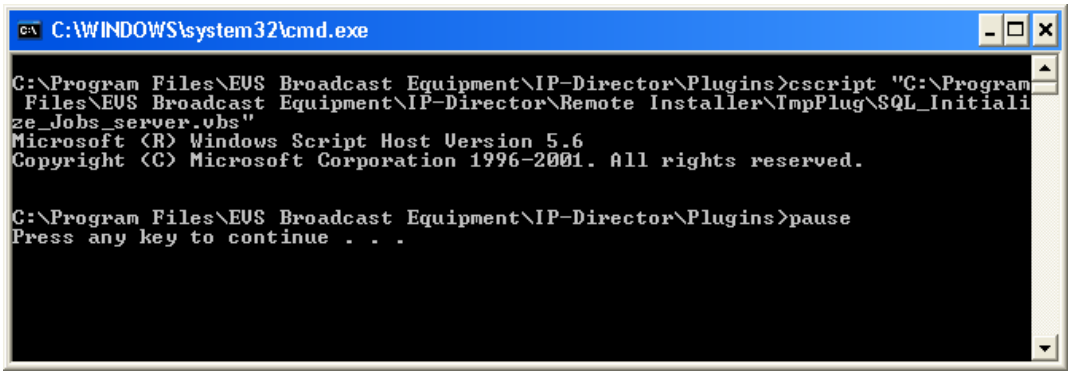
- Delete_Old_Thumbnails_Files.vbs: this plugin delete thumbnails still present on the hard disk drive but no more related to clips in the database.

Select the file and click Open, the script starts to execute:


C:\WINDOWS\system32\cmd.exe
C:\Program Files\EVS Broadcast Equipment\IP-Director\Plugins>cscript "C:\Program Files\EVS Broadcast Equipment\IP-Director\Remote Installer\TmpPlug\Delete_Old_Thumbnails_Files.vbs"
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.
Getting Thumbnails Path
Thumbnails Path = \\169.254.25.129\Thumbnails\
Files matching
0 Files in Folder
C:\Program Files\EVS Broadcast Equipment\IP-Director\Plugins>pause
Press any key to continue . . .

- SQL_Initialize_Jobs_server.vbs: this plugin update SQL jobs after a computer name change.

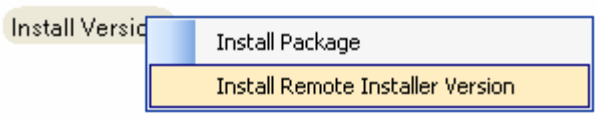
Select the file and click Open, the script starts to execute:


C:\WINDOWS\system32\cmd.exe
C:\Program Files\EVS Broadcast Equipment\IP-Director\Plugins>cscript "C:\Program Files\EVS Broadcast Equipment\IP-Director\Remote Installer\TmpPlug\SQL_Initialize_Jobs_server.vbs"
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.
C:\Program Files\EVS Broadcast Equipment\IP-Director\Plugins>pause
Press any key to continue . . .

Install Remote Installer Version

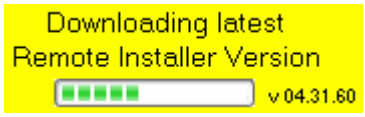
Within a workgroup, the Remote Installer Version is automatically deployed on all the IP Director workstations.

Select *Install Remote Installer Version* in the Install Version menu.



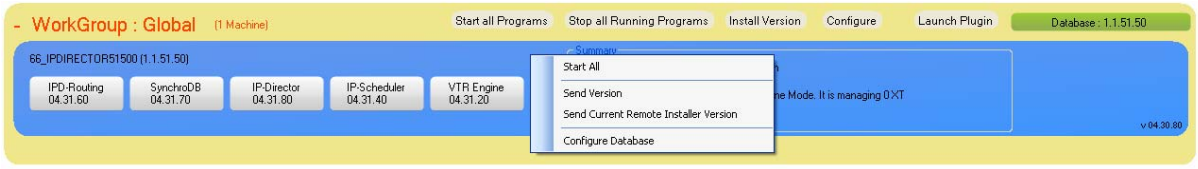
The Remote Installer starts to install the version on all workstations within the current workgroup.

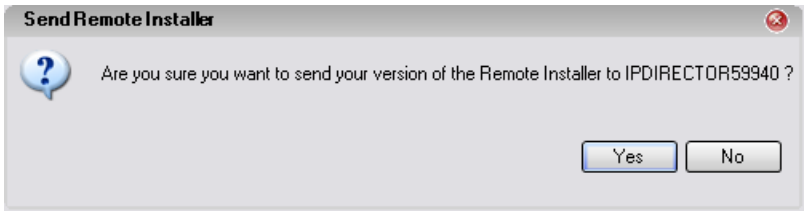
On each workstation listed in the Remote Installer, this progression bar shows the advancement of the installation.



Wait until all progress bars are completed.

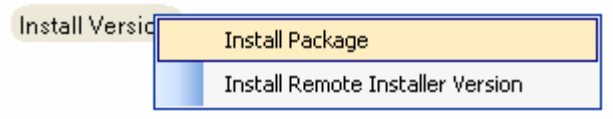
Note: There is a possibility to install the current Remote Installer Version on each workstation separately. Right click the corresponding machine and select *Send Current Remote Installer Version*.



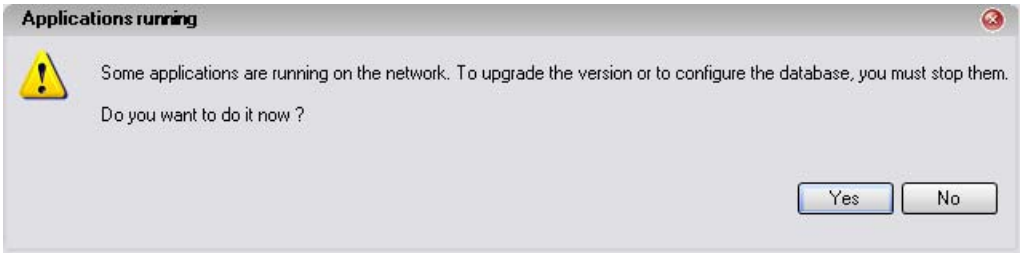


Install Package

Once the Remote Installer has been installed on every workstation, select *Install Package* in the Install Version menu.

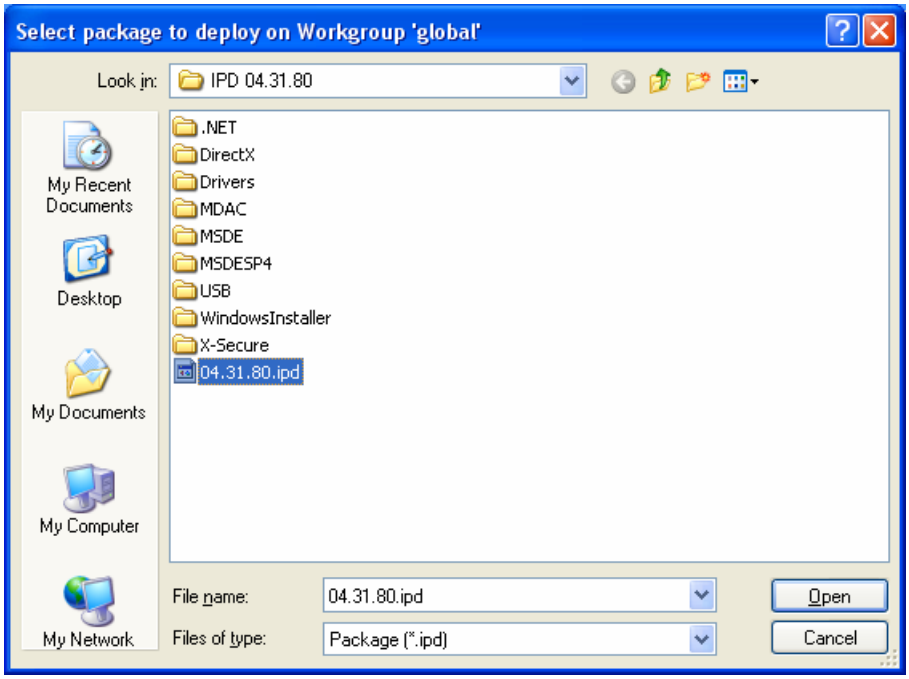


A popup message appears to alert you to stop running services (IPD-Routing, SynchroDB, IP-Director, IP-Scheduler and VTR Engine) on the network before installing version.


Applications running
Some applications are running on the network. To upgrade the version or to configure the database, you must stop them.
Do you want to do it now ?
Yes
No

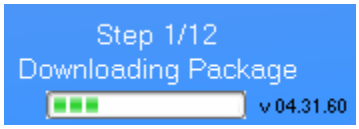
Once the services have been stopped on every workstation, select *Install Package* in the Install Version menu again.

A window opens to allow you to browse to the directory where the IP Director Package file is located. The file has an .ipd extension. Usually it has the same name as the version of the IP Director package.

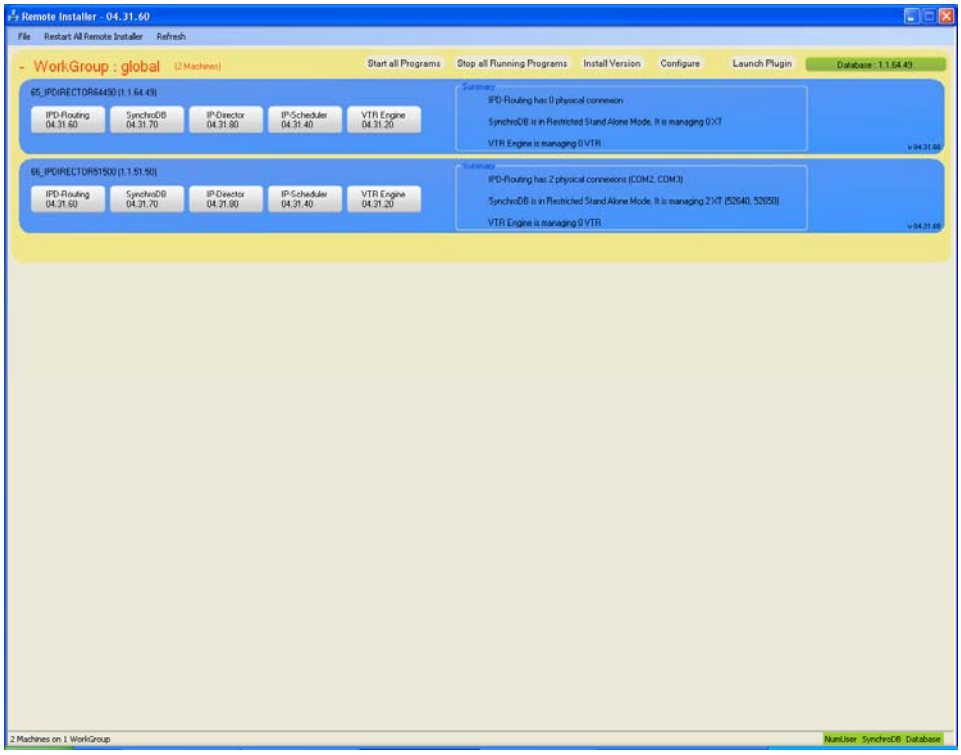


Click Open. The Remote Installer starts to install the package on all workstations.

On each workstation listed in the Remote Installer, this progression bar shows the advancement of the installation.

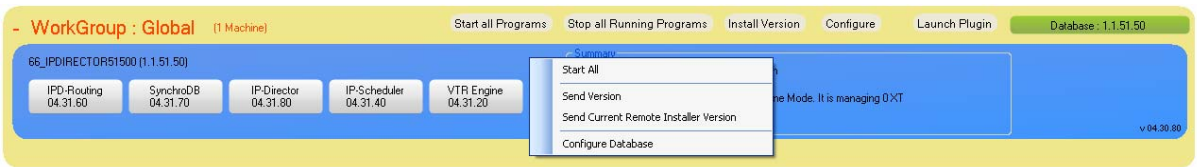


Wait until all progress bars are completed.



After refresh, the blue colour indicates that the version has been installed successfully and all workstations are matching and compatible versions.

Note: There is a possibility to install one specific version or the current Remote Installer version on each workstation separately. Right click the corresponding machine and select Send Version or Send Current Remote Installer Version.



In this right click menu, select Start All for starting all programs and Configure Database for a specific database configuration on the selected workstation.

Database Configuration

The Database button is used for the following:

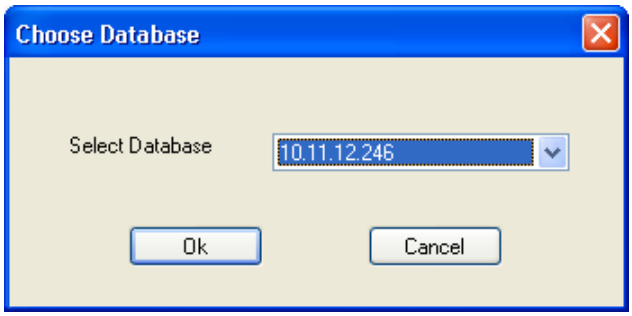
- Defining all database parameters necessary to set up your IP Director environment
- Backing up your database to a file
- Restore an empty or a previously backed up database file
- Clean the database
- Execute scripts (for example, to upgrade an older version of the database to the current DB format or get DB info to identify the restored DB file or version)

CONFIGURE DATABASE

To configure your database, right click on the Database button to open the contextual menu and choose Configure.

At the right bottom of the remote installer application, the database field in red also indicates a database conflict.

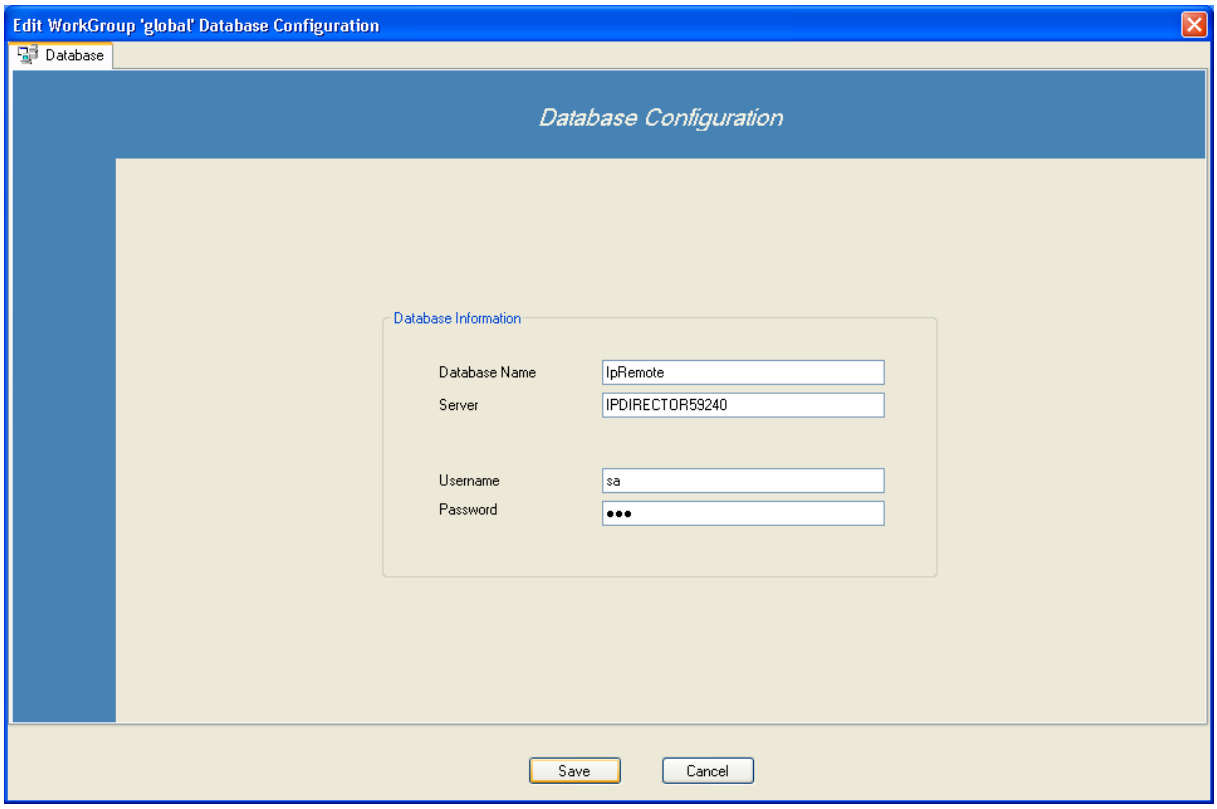
This new window pops up:



Select the Name of your server where the database is located.

This involves knowing exactly which PC the database will be hosted on. Confirm this prior to setup.

Click OK, the Database Configuration window appears.



Database Name: (Under normal circumstances, this does not change). By default, the name of the database on the network is IpRemote. EVS strongly recommends keeping the default value.

Server: Specify the name of your server where the database is located. This server can be the local IP Director workstation, another IP Director workstation or a dedicated SQL database server. You may specify the IP address of the workstation or the computer name.

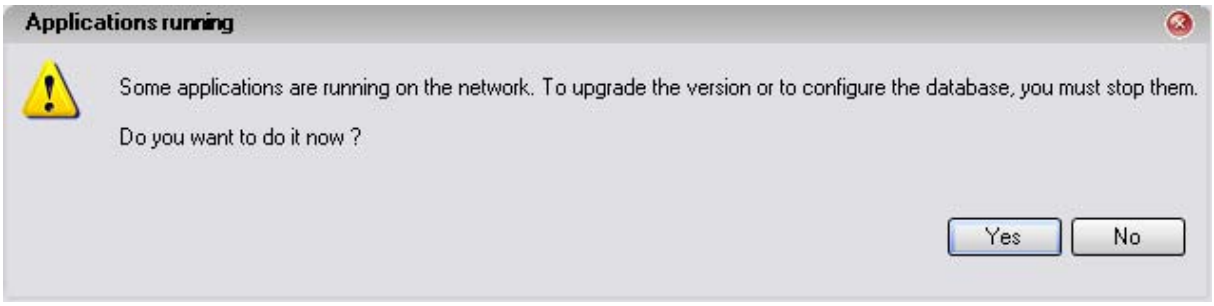
Note: When more than 3 IP Director Workstations are connected together on the same IP Network, the database must be run on a separate dedicated workstation. The SQL server must be SQL Server 2005 Standard Edition (or existing SQL Server 2000 SP4) running on a windows 2003 server operating system.

Username: (Typically not changed) default value (sa). You can change this value, as long as the database Username has also been changed.

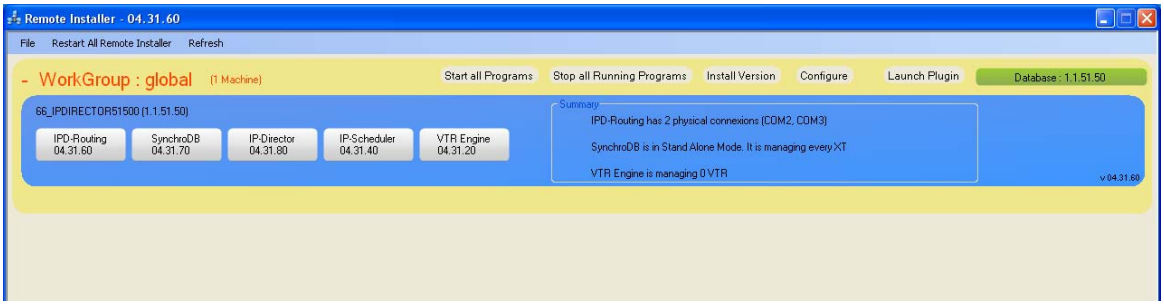
Password: (Typically not changed) default value (evs). You can change this value, as long as the database Password has also been changed.

Once the fields are specified, click Save.

Note: A left click on this button will automatically launch the Database Configuration window. But if several workstations are running in the network a warning message appears to prevent you to stop all the applications running:

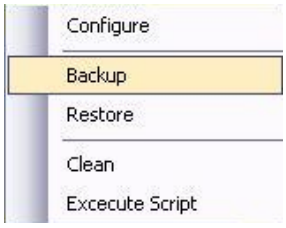

Applications running
Some applications are running on the network. To upgrade the version or to configure the database, you must stop them.
Do you want to do it now ?
Yes
No

If the Database button is now Green this indicates the DB configuration was successful.

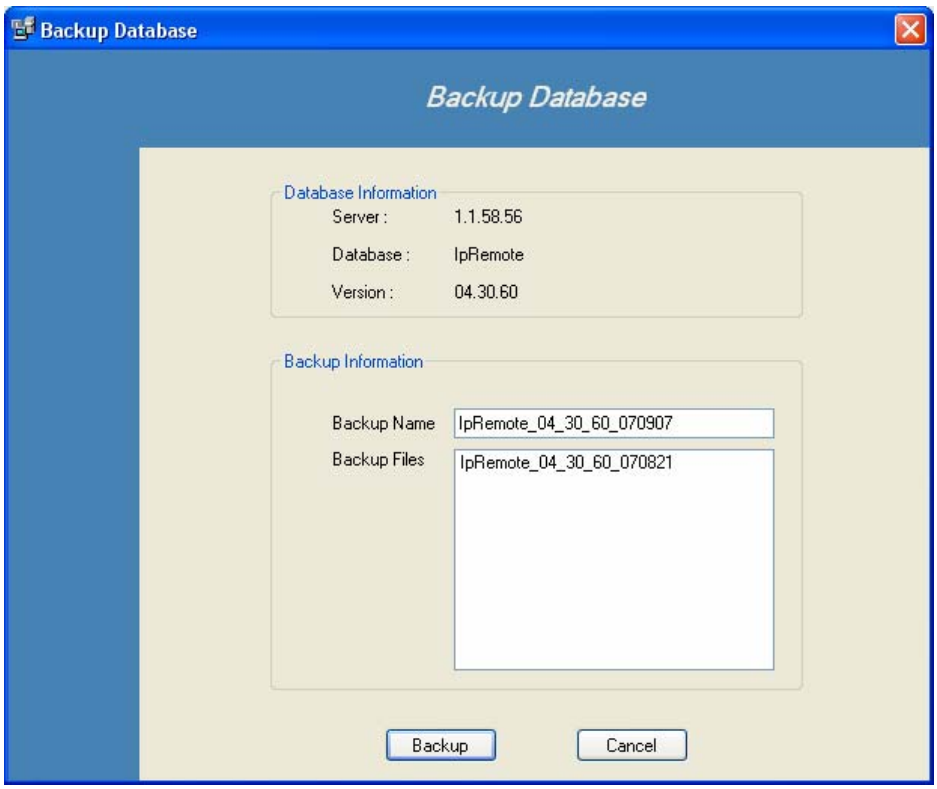


BACKUP DATABASE

To create a backup file of your database, right click on the green Database button to open the contextual menu and choose Backup.



The backup database window opens.



Backup Name: Specify the name of the backup file.
Default value is the current DB Version Name + Date.

Note: It is not recommended to overwrite the original DB file that delivered with the software. It is recommended to modify the name of the file to best describe the contents of the database being backed up.

Backup Files: Existing backup files (for the current database version) found on the local PC.

Check the parameters. If they are not correct, click Cancel and select the Configure database of the contextual menu to modify them.

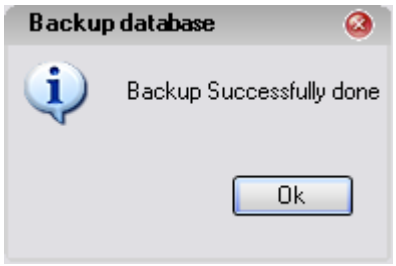
If parameters are correct, enter a name for the backup file.

The existing backup files (for the current database version) are displayed in the right-window list. Just select one.

If you would like to overwrite the existing file, select it here.

The backup file is created on the workstation were the backup function is performed and is stored in the c:\program files\EVS Broadcast Equipment\IP Director\Database folder

Click Backup to create the backup file.

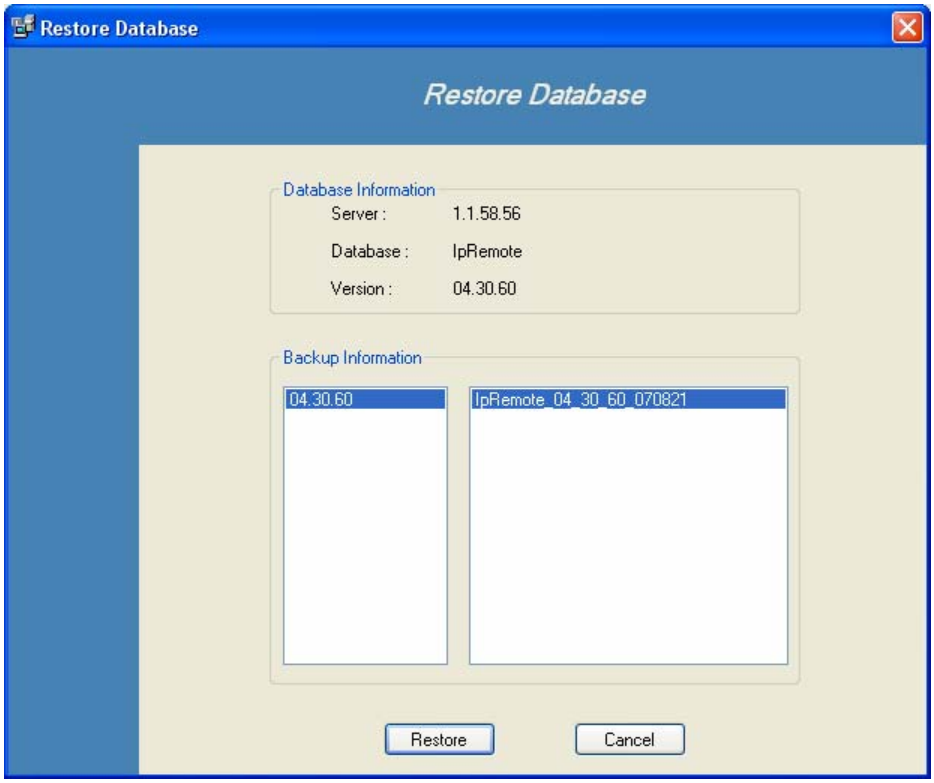


Click Ok.

RESTORE DATABASE

To restore a backup file to your database, right click on the green Database button to open the contextual menu and choose Restore.

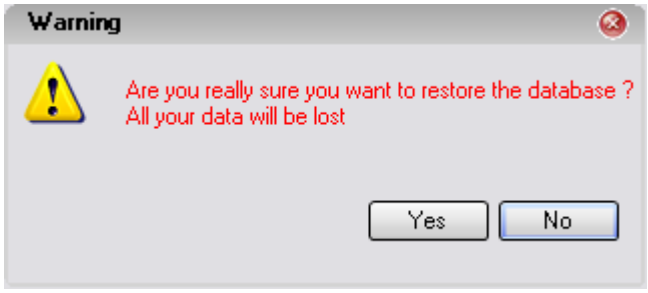
The Restore database window opens.



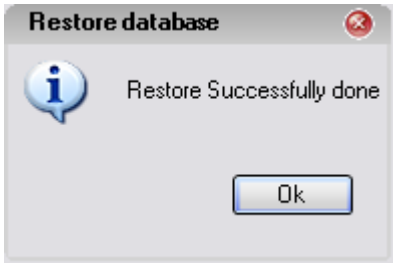
Check the Database information parameter. If they are not correct, click Cancel and select the Configure database of the contextual menu to modify them.

If parameters are correct, in the 'Backup Information' panel, in the left window list, select the database version of the backup you would like to restore. In the right window list, select the file.

Click Restore.



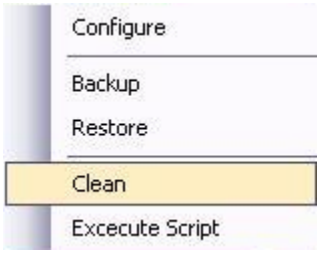
Click No to cancel the operation, click Yes to restore the database.



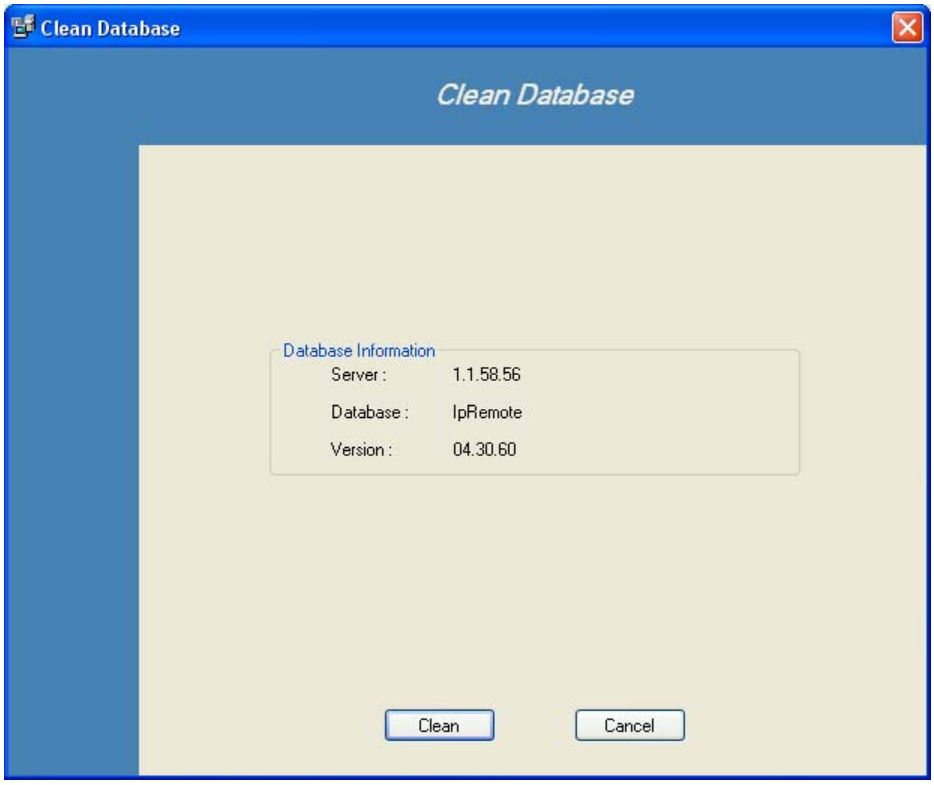
After completion, click Ok.

CLEAN DATABASE

To clear your database, right click on the green Database button to open the contextual menu and choose Clean.



The Clean database window opens.



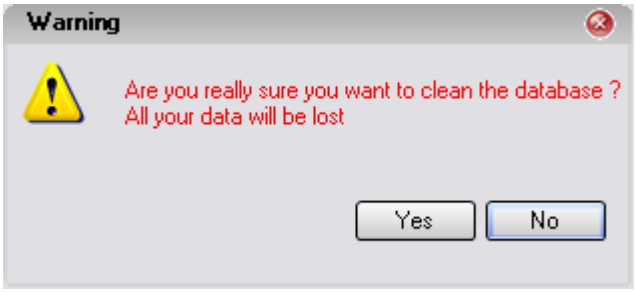
Server: displays the name of your server where the current database is located.

Database: Displays the name of the database currently configured.

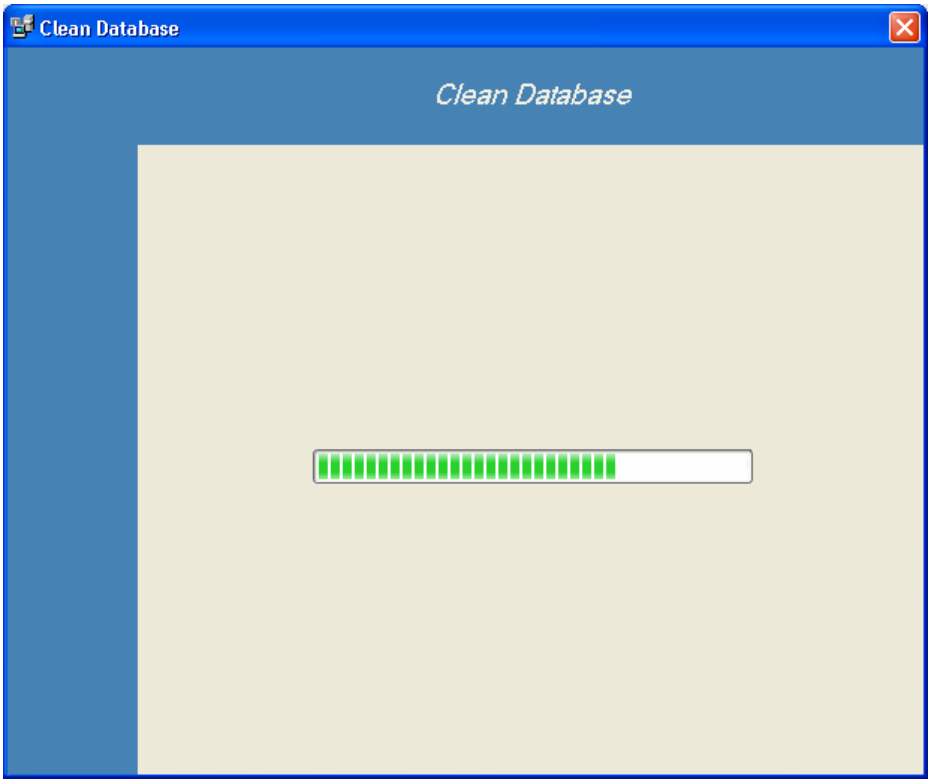
Version: Indicates the version of the DB currently active on the DB Server.

Check the parameters. If they are not correct, click Cancel and select the Configure database of the contextual menu to modify them.

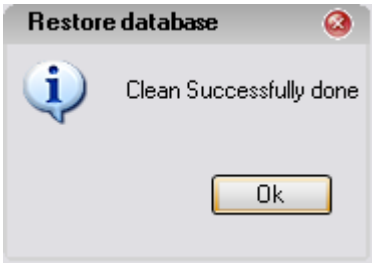
If parameters are correct, click Clean.



Click No to cancel the operation, click Yes to clean the database.



Wait until the end of the procedure.



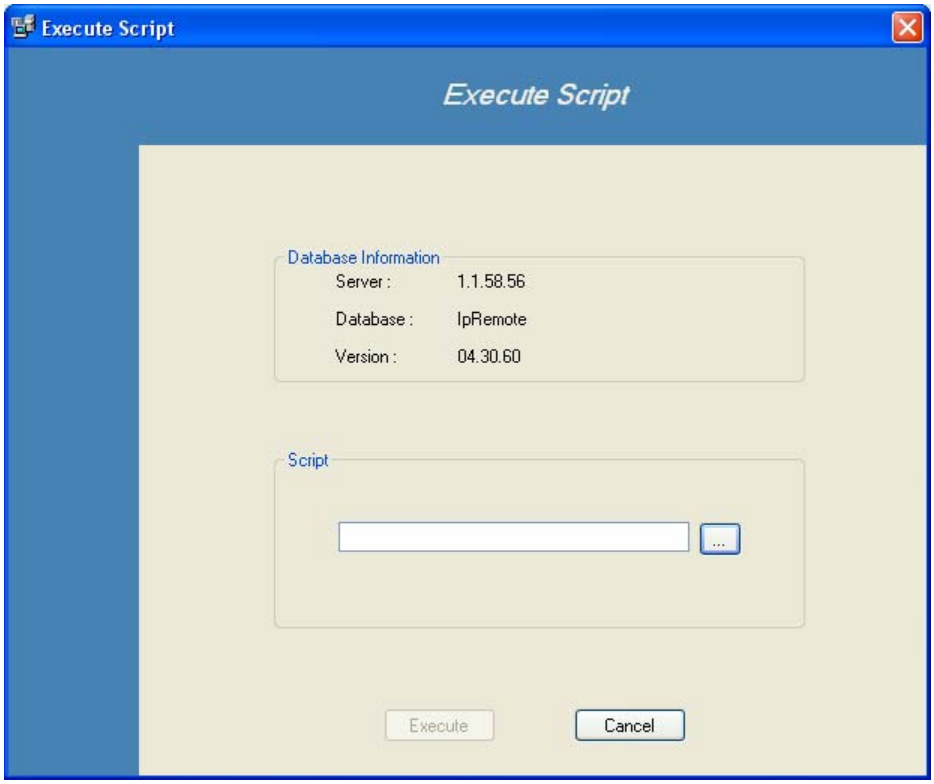
Click Ok.

EXECUTE SCRIPT

To execute SQL script on your database, right click on the green Database button to open the contextual menu and choose Execute script.

Before executing any script, be sure your SQL server engine is running on your database server.

The Execute Script window is opened.



Server: displays the name of your server where the current database is located.

Database: Displays the name of the database currently configured.

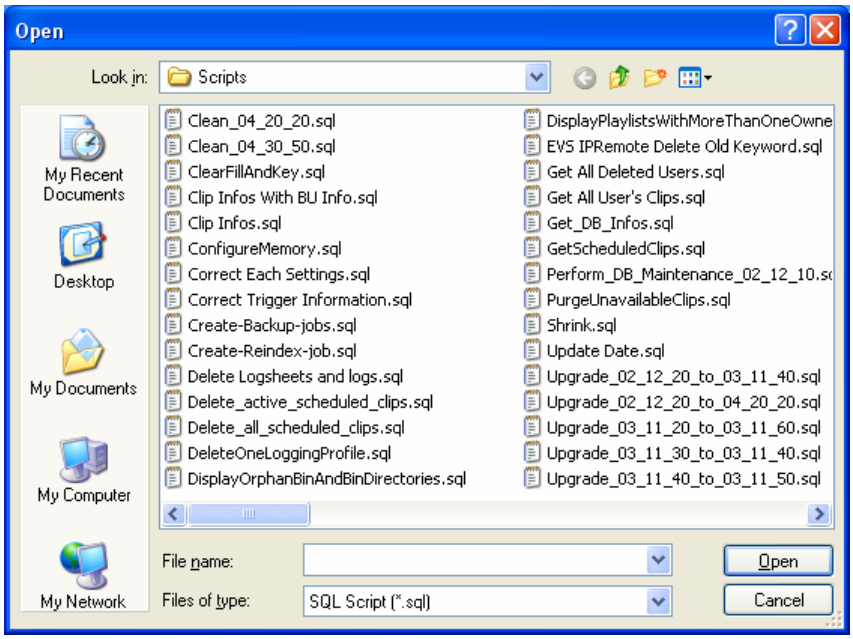
Version: Indicates the version of the DB currently active.

Check the parameters. If they are not correct, click Cancel and select the Configure database of the contextual menu to modify them.

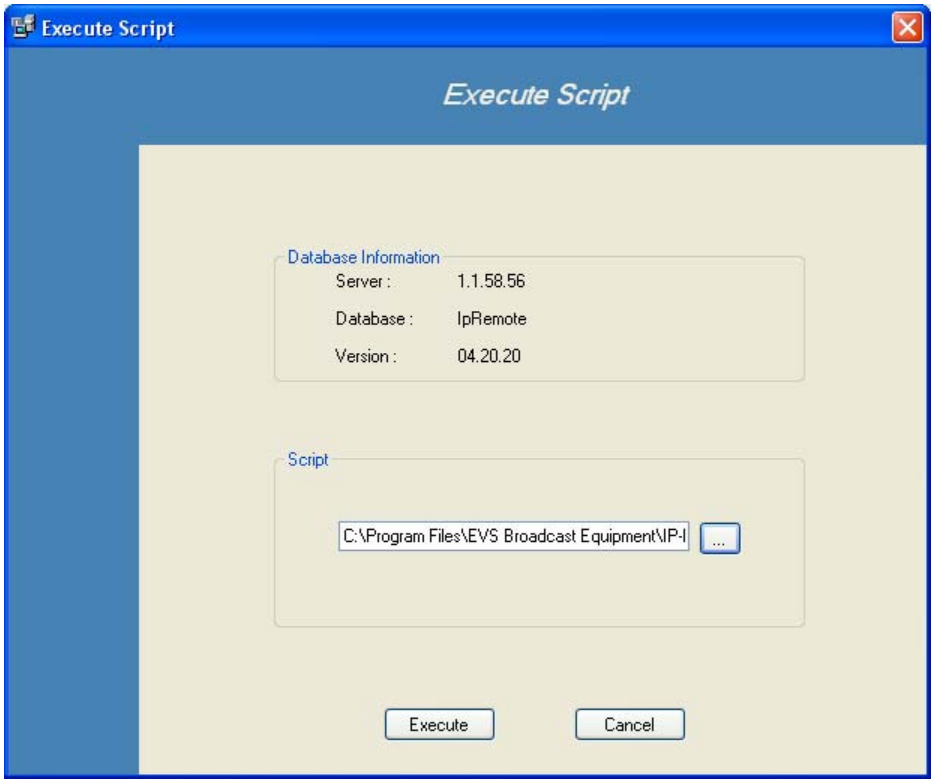
If parameters are correct, click on the browse button to select the script to execute.

To upgrade your Database version: execute the corresponding upgrade script.

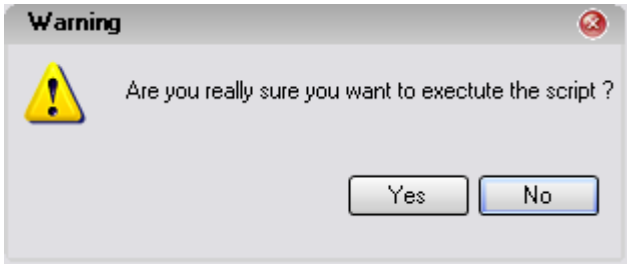
For example, to upgrade from a Version 04.20.20 to a Version 04.30.60 choose the file “Upgrade_04_20_20_to_04_30_60.sql”



Select the script file in the list and click Open.

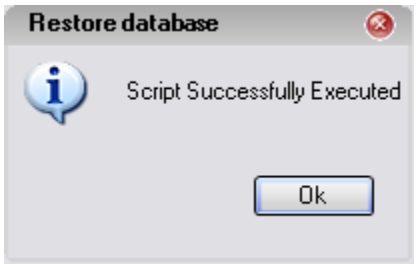


Then click Execute.

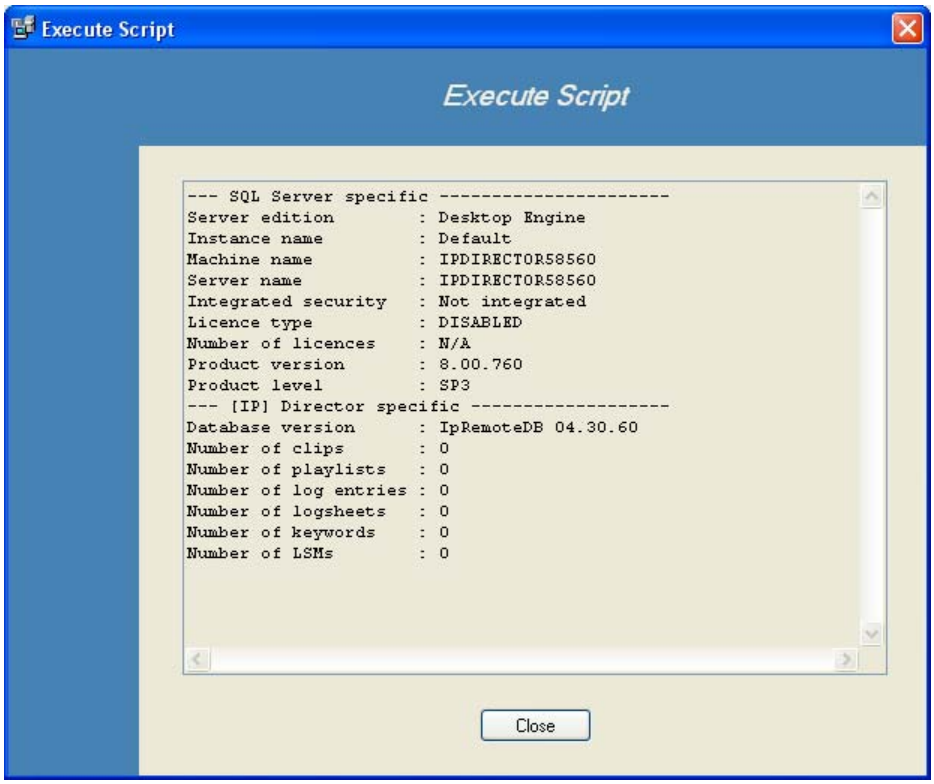


Click No to cancel the operation, click Yes to execute the script.

When the script is executed, the system tells you it has been successfully executed.



Following is an example of the "GetInfoDB.sql" script
It is the most useful script for identifying the status of the current SQL version, Service Pack and restored database version.


Execute Script
Execute Script
--- SQL Server specific ----------------------
Server edition : Desktop Engine
Instance name : Default
Machine name : IPDIRECTOR58560
Server name : IPDIRECTOR58560
Integrated security : Not integrated
Licence type : DISABLED
Number of licences : N/A
Product version : 8.00.760
Product level : SP3
--- [IP] Director specific -------------------
Database version : IpRemoteDB 04.30.60
Number of clips : 0
Number of playlists : 0
Number of log entries : 0
Number of logsheets : 0
Number of keywords : 0
Number of LSMs : 0
Close

Click Close.

Parameters Configuration

Click on the Configure button:

Important: Be sure your database parameters have been correctly defined before configuring all parameters. Refer to database configuration chapter for more information.

The Edit Workgroup window opens.

The Configuration window is used to define all parameters necessary to set up your IP Director environment. These parameters are related to the following components:

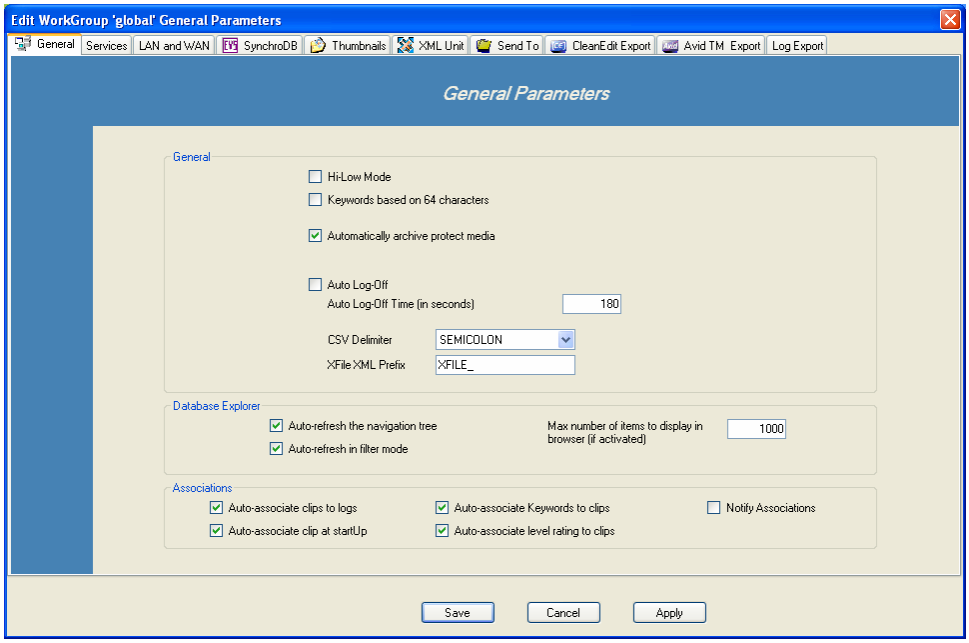
- General Parameter configuration used by the application
- Services configuration (defines the user used for logging services)
- LAN and WAN Configuration (for advanced network configuration)
- Load Balancing configuration for SyncroDB network configurations.
- Thumbnails configuration (defines the automatic thumbnail creation when a clip is created).
- XML Unit configuration (define which XFile workstation will manage backup of clips)
- Send to configuration for predefined paths to manage when clips can be moved to through an XFile XML instruction.
- CleanEdit Export: settings regarding database integration to a CleanEdit system for managing clip exchange to the CleanEdit.
- Avid TM Export: settings regarding integration to an AVID Transfer Manager application.

  Note: This requires consultation with EVS staff prior to the event.

- Log Export: settings regarding Third Party logging export.

GENERAL PARAMETERS CONFIGURATION

Select the General tab.



Hi-Low Mode:

Not available for usage without direct consultation with EVS staff. This mode requires specific hardware and setup provisions.

Keywords based on 64 characters:

The IP Director can work either with 12 characters keywords or with 64 characters keywords.

In the 12 characters mode:
Keywords assigned to clips are visible in XT and IP Director interfaces (clip keywords are synchronized between the XT database and the IP Director database).

In the 64 characters mode:
Keywords can be 64 characters long but are no longer pushed to clips on the XT server. Keywords assigned to clips defined on the XT server are only visible in the XT interfaces and keywords assigned to clips defined on IP Director workstations are only visible in the IP Director interfaces. Log keywords are no longer pushed to the clips associated to the logs. (No keyword synchronization between the IP Director and the XT servers).

Default value: unchecked. IP Director normally works in 12 characters mode.

Note: EVS suggests using the 64 characters mode only on major events where this function is required as it is not possible to return to a 12 characters keyword mode without clearing the IP Director database.

Automatically archive protect media:

If this option is checked, all protect media created for a log sheet will be automatically archived on the XFile defined as the default backup XFile in the settings of the XT server. The clip always moves to the defined session folder on the Xfile.

Default value: checked.

Auto log off :

Auto log off Time: the system will automatically log off if the IP Director has not been used after 'X' seconds.

CSV Delimiter :

Allows to choose CSV delimiter in CSV files. You can select Semicolon, Comma, Tab or Space.

XFile XML Prefix :

Allows a prefix values to be added to all XML files being dropped to an XFile unit. This allows for other device to prepend a unique prefix for identification purposes.

Default value: XFILE_

Note: EVS suggests using the default value. This parameter is designed for custom projects. Please contact EVS staff for additional information about this parameter.

Auto-refresh the navigation tree:

This parameter automatically refreshes the navigation tree in the Database explorer of IP Director. This parameter should be disabled on very large setups (typically when more than 30 workstations are connected together on the same IP network).

Note: All these parameters are global to all IP Director workstations on the network. It must only be set once and can be defined on any workstation.

Auto-refresh in filter mode:

This parameter automatically refreshes research items in filter mode in the Database explorer of IPDirector. This parameter should be disabled on very large setups (typically when more than 30 workstations are connected together on the same IP network).

Max number of items to display in browser (if activated):

Specify the maximum number of elements (clips, logs, etc.) that can be displayed at any one time in a list in the IP Director application.

Default value: 1000

Auto-associate clips to logs:

When this option is checked, clips which include log timecode are automatically associated to those logs. If this option is unchecked, the automatic association process between clips and logs is not activated.

Default value: checked.

Auto associate clips at start up:

If this option is checked, when the SynchroDB service is started, an automatic process will check the association of clips to logs. This process is CPU consuming on the database workstation and can lead to a sluggish response in the IP Director interface.

Default value: checked.

Auto associate keywords to clips:

This option allows the logged keywords to be automatically pushed to their associated clips. If this option is unchecked, the keywords are disassociated from their corresponding clips.

Note that if the 'Keywords on 64 characters' option is checked, the keywords won't be pushed to the clips on the XT side, they will only be pushed to clips on the IP Director side.

Default value: checked.

Note: All these parameters are global to all IP Director workstations on the network. It must only be set once and can be defined on any workstation.

Auto associate level rating to clips:

This option allows the logged level rating to be automatically pushed to their associated clips. If this option is unchecked, levels rating are disassociated from their corresponding clips.

Default value: checked.

Notify associations:

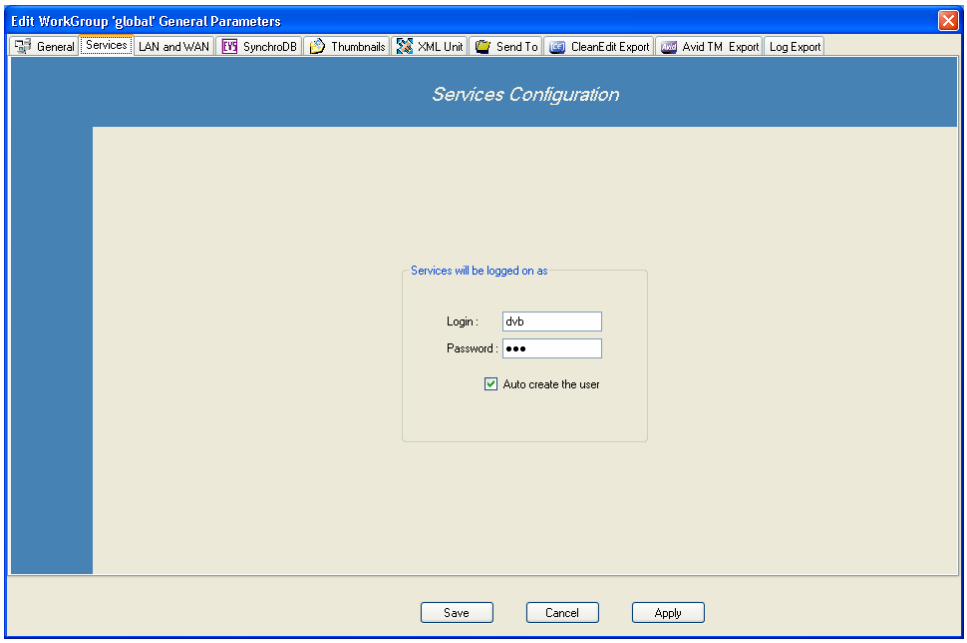
When this option is checked, as soon as a clip/log association is created or deleted, a notification is sent to all IP Director workstations to refresh their interfaces. If this option is unchecked, those notifications will not be automatically sent and a manual refresh should be done in the IP Director interface to see the clip/log association modifications. It should only be unchecked for very large setups when the associations do not have to appear instantly and constantly refreshed. It will lead to less CPU database consumption and will improve the reactivity of the IP Director interfaces.

Default value: checked.

Note: All these parameters are global to all IP Director workstations on the network. It must only be set once and can be defined on any workstation.

SERVICES CONFIGURATION

Select the Services tab.



The IPDirector services can't be logged on as Local System to access network resources. The default user used is DVB. This user is present on every EVS systems to allow exchanges between products.
For example: IpScheduler sends XML files to an XFILE shared folder, the DVB user must also be present on the XFILE workstation to allow these files to be shared easily.
Changing the logon used by the services can have an important impact on file sharing and access between EVS products and other 3rd Party systems.

Login:

Enter the login name of the user.

Default value: dvb

Password:

Enter the password of the user.

Default value: (blank)

Auto create the user :

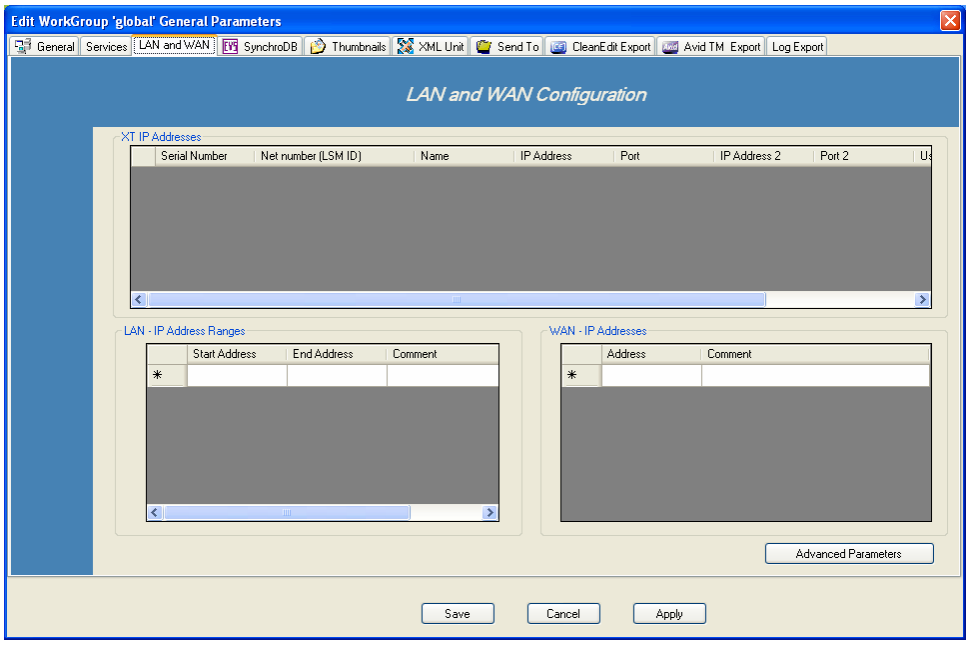
If this option is checked, a new user is created on all the workstations detected by the Remote Installer (if this user doesn't already exist).

Default value: Unchecked.

Note: All Services (IPD-Routing, SynchroDB, IP-Director, IP-Scheduler and VTR Engine) must be stopped to visualize this tab.

LAN AND WAN CONFIGURATION

Select the LAN and WAN tab.



XT IP Addresses:

This box is designed for a future development in relation with the new Gigabit (GBE) feature on the XT[2] server.
This function is not available in version 04.31.80

LAN – IP Address Ranges:

Distant IPDirector workstations (WAN) communicate by Unicast with the local IPDirector workstations (LAN) inside IP address range(s).
Define small range(s) to reduce Unicast communication to a minimum number of addresses.

Default value: (blank)

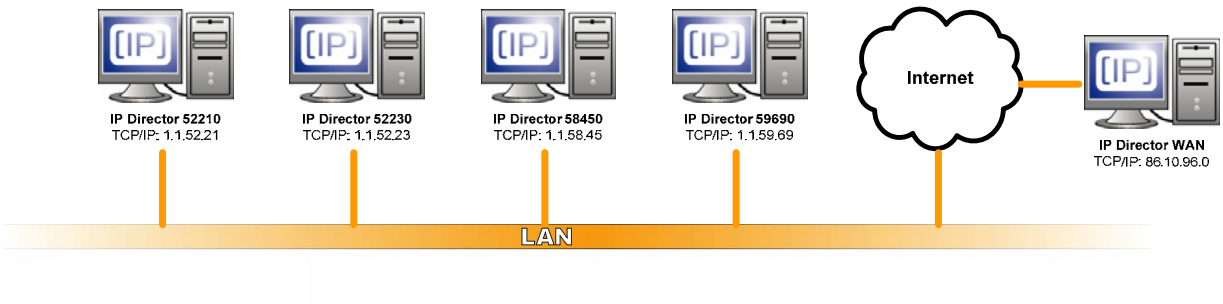
WAN – IP Addresses:

Local IPDirector workstations (LAN) communicate by Unicast with the distant IPDirector workstation(s) defined in the WAN section.

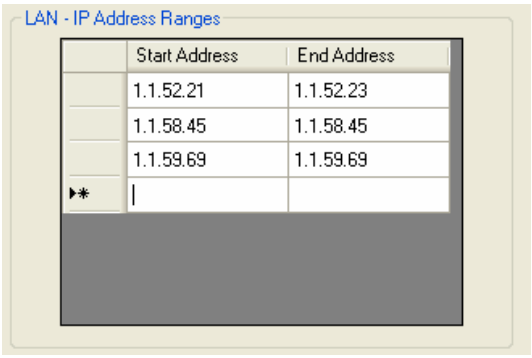
Default value: (blank)

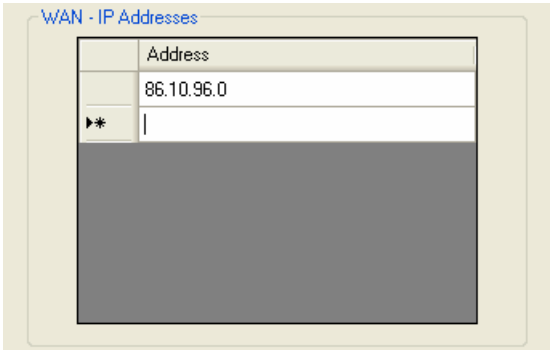
For example:

4 IPDirectors on a Ethernet network (LAN) and 1 IPDirector accessible by an Internet connection (WAN).



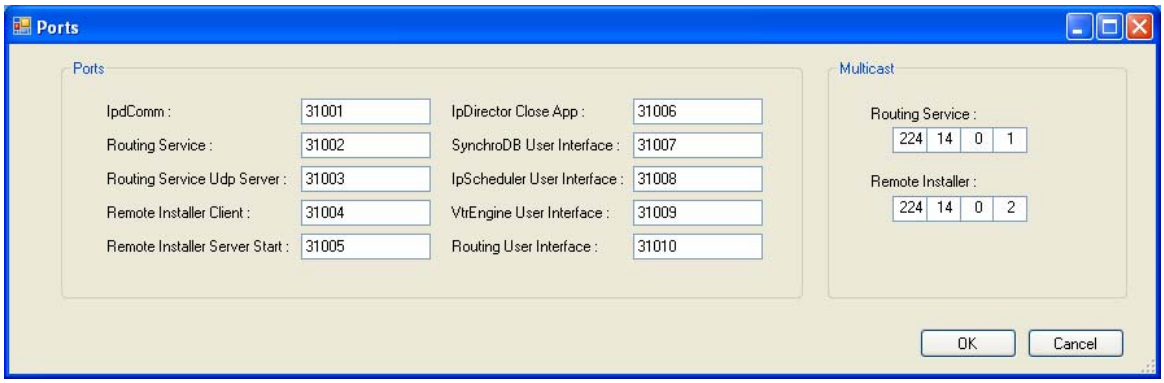
Specify the configuration as follow:





Advanced Parameters:

By clicking on the Advanced Parameters button, you access this window:


Ports
Ports
IpdComm : 31001
Routing Service : 31002
Routing Service Udp Server : 31003
Remote Installer Client : 31004
Remote Installer Server Start : 31005
IpDirector Close App : 31006
SynchroDB User Interface : 31007
IpScheduler User Interface : 31008
VtrEngine User Interface : 31009
Routing User Interface : 31010
Multicast
Routing Service : 224 14 0 1
Remote Installer : 224 14 0 2
OK
Cancel

The LAN/WAN configuration give you the possibility to change ports used by IP Director application and all the services.

Ports:

Default values:	IpdComm:	31001
	Routing Service:	31002
	Rotuing Service Udp Server:	31003
	Remote Installer Client:	31004
	Remote Installer Server Start:	31005
	IpDirector Close App:	31006
	SynchroDB User Interface:	31007
	IpScheduler User Interface:	31008
	VtrEngine User Interface:	31009
	Routing User Interface:	31010

Multicast:

Inside the LAN, IPDirector workstations communicate by multicast.

Default values:	Routing Service	224.14.0.1
	Remote Installer	224.14.0.2

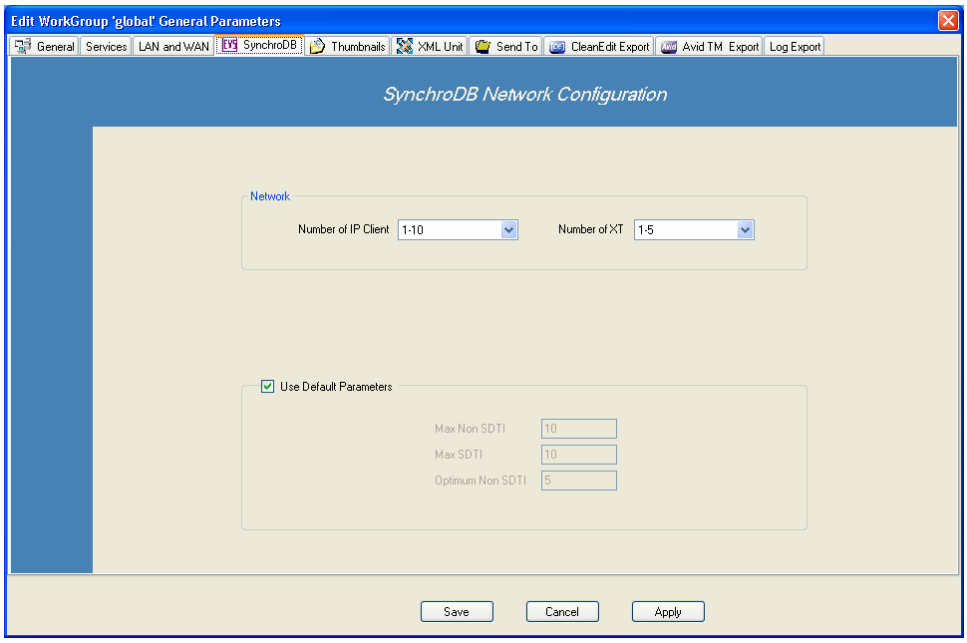
Note: We recommend you to keep the default values for these settings. Your network administrator provides you the new port numbers or multicast addresses if needed.

SYNCHRODB CONFIGURATION (LOAD BALANCING)

The SynchroDB Load Balancing parameters are only relevant when some SynchroDB workstations are defined to operate in the Network mode.

In Stand Alone - Restricted Stand Alone - None mode, these parameters are not taken into account.

Select the SynchroDB tab.



There are two ways to use these parameters:

1. Automatic: Check the 'Use Default Parameters' check box

   In this case, the system will automatically calculate the variables of the load balancing process. You only need to specify the Number of IP Client workstations present on the IP network and the number of XTs available on the XNet network.

2. Manual: Uncheck the 'Use Default Parameters' check box.

   If you want to manually define the automatic load balancing variable, uncheck the 'User Default Parameter' check box.

   3 variables must be defined:

   Max Non-SDTI:
   The maximum number of XT servers (for which an RS422 connection to an IP Director workstation exists) the SynchroDB in network mode should manage at one time when network mode is employed.

Max SDTI:
The maximum number of XT or XFile system(s) (for which no RS422 connection to an IP Director workstation exists) the SynchroDB in network mode should manage at one time when network mode is employed.

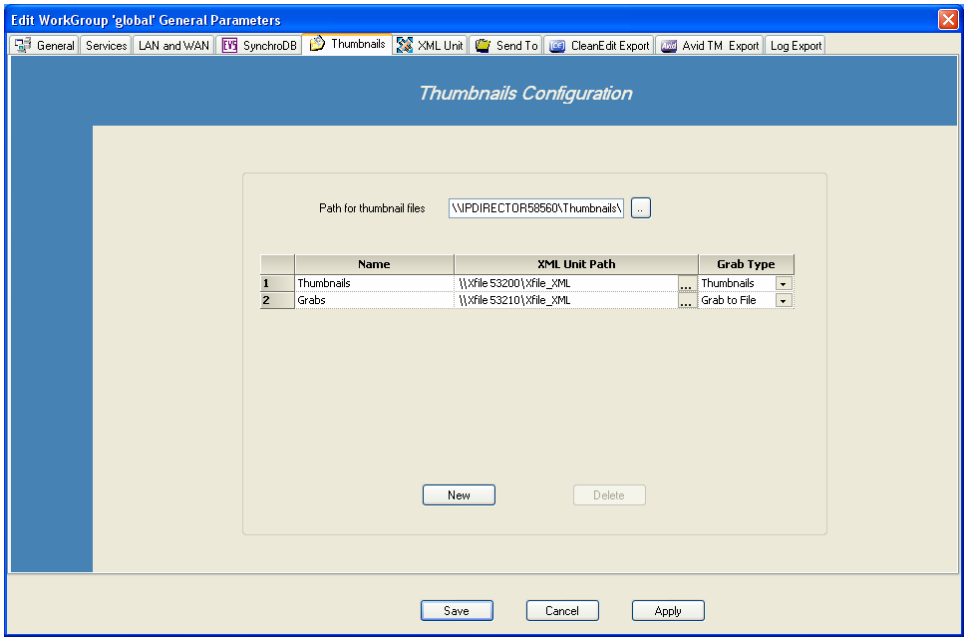
Optimum Non SDTI:
The optimum number of XT servers (for which an RS422 connection to an IP Director workstation exists) the SynchroDB in network mode should manage at one time when network mode is employed.

THUMBNAILS AND GRAB CONFIGURATION

Select the Thumbnails tab.

This must be configured if you plan to have thumbnails created automatically as clips are created. It is also used to configure the new Grab function.

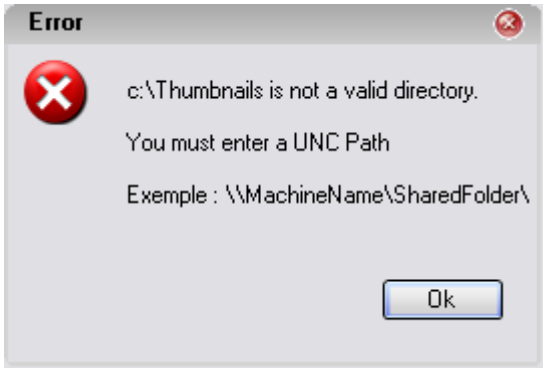
Note: Thumbnails and Grab will physically be created by XFile workstations. You need at least one XFile workstation on your XNet network to use this function.



Path to thumbnail files: This is the directory (with its full path) where the thumbnail files (.jpg) will be stored. Enter the UNC path in the text field, or click on the browse button ... to select the destination folder.

Note: Only UNC DNS name or IP address path are valid. (Ex: \\servername\sharedfolder\, \\1.1.10.100\sharedfolder\)
No local paths are valid. It is required to use an IP Address when working with IP Directors connected in a WAN configuration as they may not be able to resolve the UNC Host Name of the computer.

A message appears if the selected path is not valid:



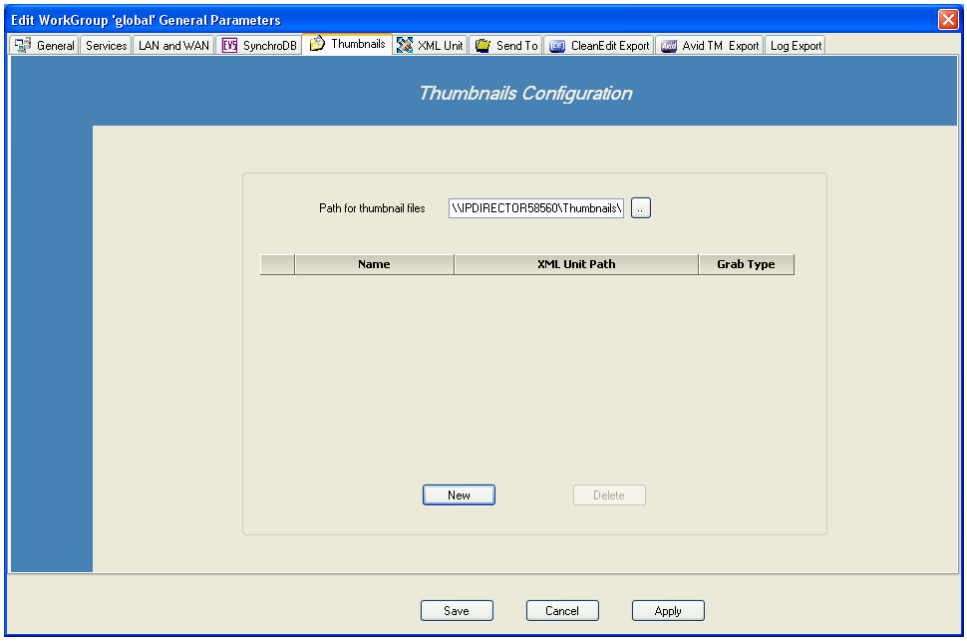
Be sure this folder is shared with full access rights. EVS recommends this directory should be located on the database server in the \thumbnails directory.

This path is only used for the thumbnails displayed in the database explorer. The path for grab files is defined by users inside the IPD Director interface (please refer to the IPD User Manual) or by the administrator in the Settings Tab inside the User Manager application (please refer to the User Manager chapter)

Create a new Thumbnail or Grab XML unit

Note: A Thumbnail or Grab XML unit is an XML folder located on an XFile workstation where all XML files (corresponding to a Thumbnail or Grab creation request) will be sent.

Click on the 'New' button to add a unit.



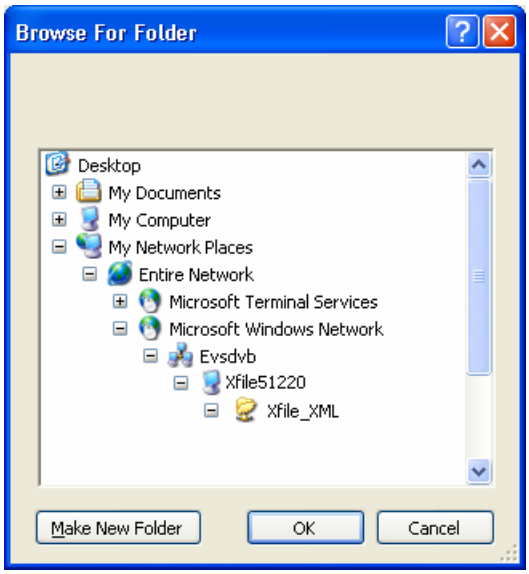
A new line is added in the unit list.

At least one Thumbnail unit must be defined to activate the automatic thumbnail creation process.

Note: More than one thumbnail unit can be defined. In this case, the IP Director will disperse the thumbnail creations responsibility amongst all units defined.
Only one Grab unit must be defined to activate the Grab function in a Control Panel or in a Clip Editor window.

Name: Click in the 'Name' column and give a name to describe your Thumbnail or Grab configuration. This will not be displayed to the IPDirector user in any way.

XML Unit Path: Click on the browse button ... to select the folder where the XML files (thumbnail creation request) will be sent.



This folder must correspond to the XFile_XML folder on the XFile workstation which will effectively create the thumbnail.

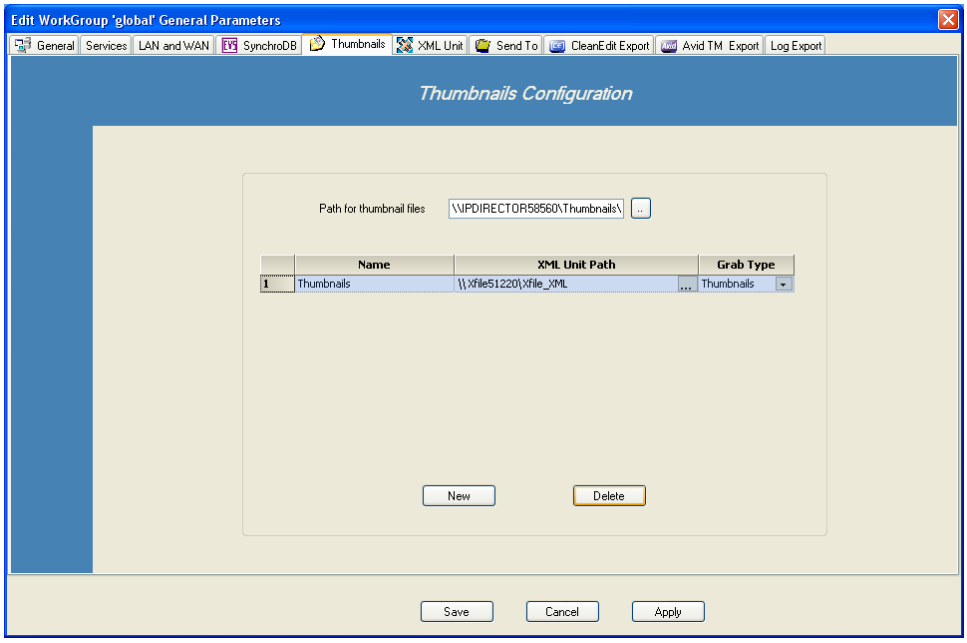
Grab Type: Select the type of configuration. 'Thumbnails' to send XML Thumbnail requests in the specified XML Unit Path. 'Grab to File' to send XML Grab requests in the specified XML Unit Path.

Note: The same XML Unit Path can be defined for the two different tasks.

Note: Thumbnail and Grab units are global to all IP Director workstations on the network. They should only be defined once and can be defined from any workstation.

Delete a Thumbnail or Grab unit.

Click on the unit number to select it.



Click on the '**Delete**' button.

The unit is deleted.

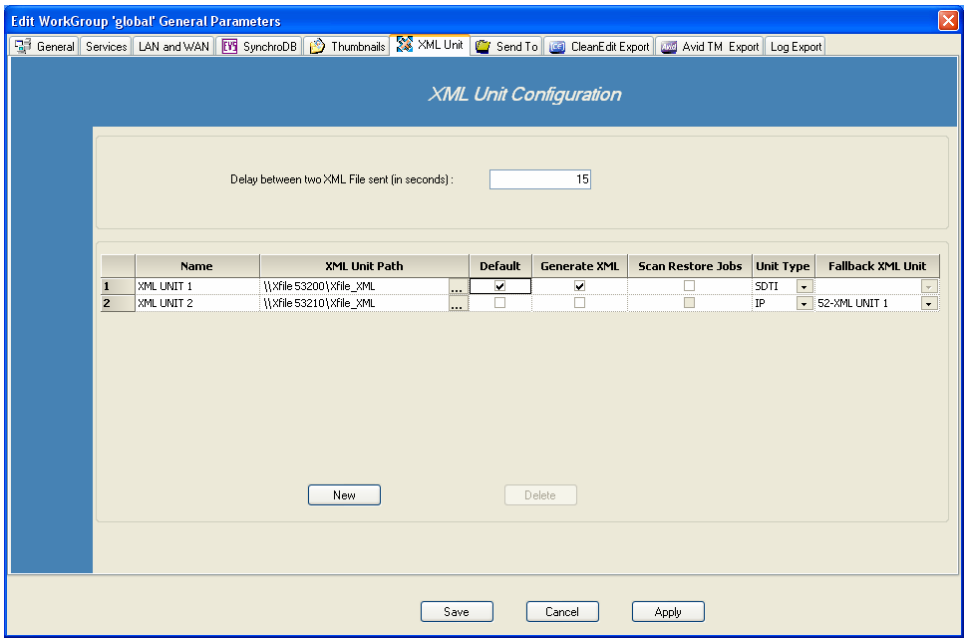
Note: If an XML unit does not have a valid XML Unit Path defined, or the XFile defined is not accessible, the XML unit may not be able to be deleted. In this case, browse to a valid location, and then delete the UNIT.

XML UNIT CONFIGURATION

Select the' XML Unit' tab.

XML units must only be defined if you plan to:
- Manually select the destination folder where the archived clips will be moved to (with metadata XML files optionally).
- Automatically add metadata to external restored clips.
- Send a clip to a Clean Edit system
- Send a clip to an Avid System using the Transfer Manager.

Note: The default archive procedure (send to → default archive) from the IP Director interface, does not use XML unit process.



Delay between two XML file sent (in seconds):

This parameter indicates the time (in seconds) between 2 XML files sent to an XML unit.

What is it used for?

The XFile system executes the XML instructions of one XML unit based on their creation time. If one IP Director workstation on the network send lots of instructions at one time, it could delay the execution time of other IP Director instructions.

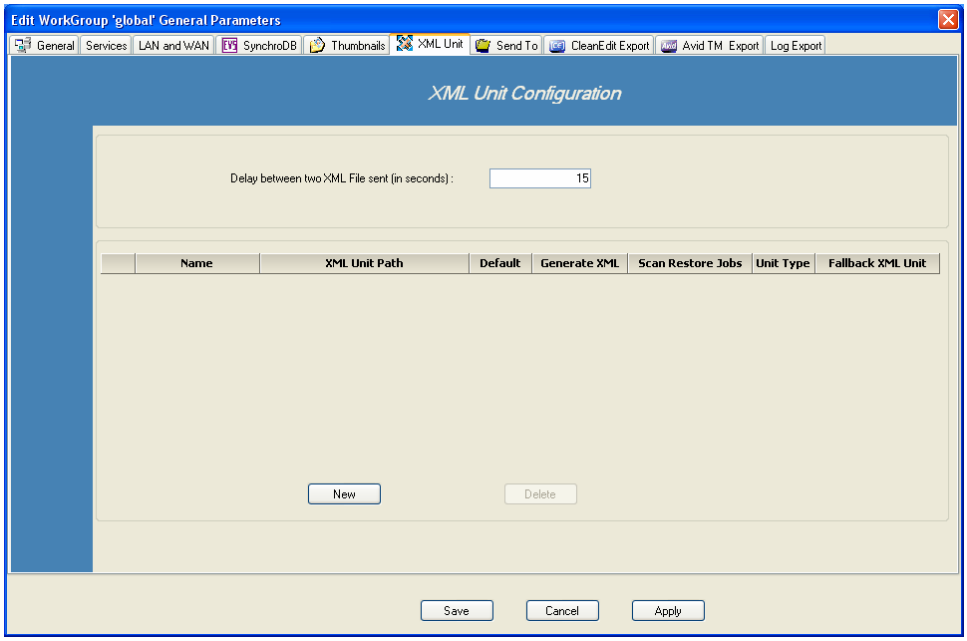
This parameter allows the system to minimize this kind of bottleneck by spacing the time in which one system can send consecutive instructions to an XML unit.

Default value: 15 Seconds

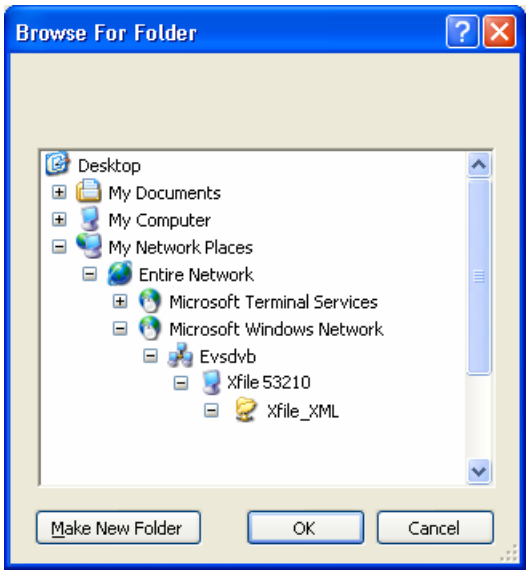
Create a new XML unit

Note: A XML unit is an XML folder located on one XFile workstation where all XML files (corresponding to a backup request, a clip export to a Clean Edit or AVID system) will be sent.

Click on the 'New' button to add a new unit.



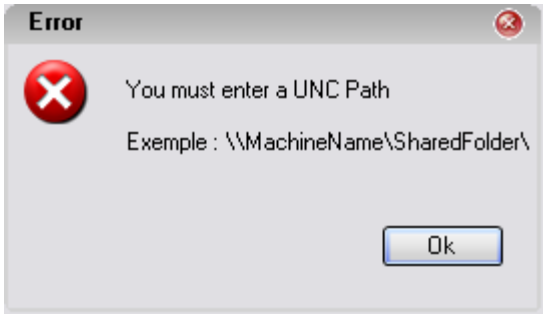
A new line is added in the unit list. Click in the 'Name' column and give a name to the unit. Click on the browse button ... to select the folder where the XML files will be sent. This folder should be a UNC path to the network locations where the folder exists.



Note: This folder must correspond to the XFile_XML folder on the XFile workstation which will effectively backup the clip. Be sure this folder is shared with full access rights.

Note: Only UNC DNS name or IP address path are valid. (Ex: \\XFile53210\XFile_XML\, \\1.1.1.100\XFile_XML\)
No local paths are valid.

A message appears if the selected path is not valid:



Default: If the unit is to be defined as the default unit for all workstations, check the box in the default column of the unit.

Generate XML: If the box is checked, IP Director sends metadata XML files joined to clips.

Since version 04.30.xx, IP Director includes extended metadata stored in the IPD database. When you export clips to targets, you can joined metadata in XML files created in the same target clip folder.

Scan Restore Jobs: By checking this box, IP Director scans XML Unit Path to restore metadata on external restored clip.

Since version 04.30.xx, metadata in XML files joined to external clips are associated to clips after restore.
Third Party systems can send orders to XFILE. The XFILE restores clip from a MXF file to an EVS server. Then IP Director, scan the incoming XFILE folder and associate the metadata found in the metadata XML file with the restored clip.

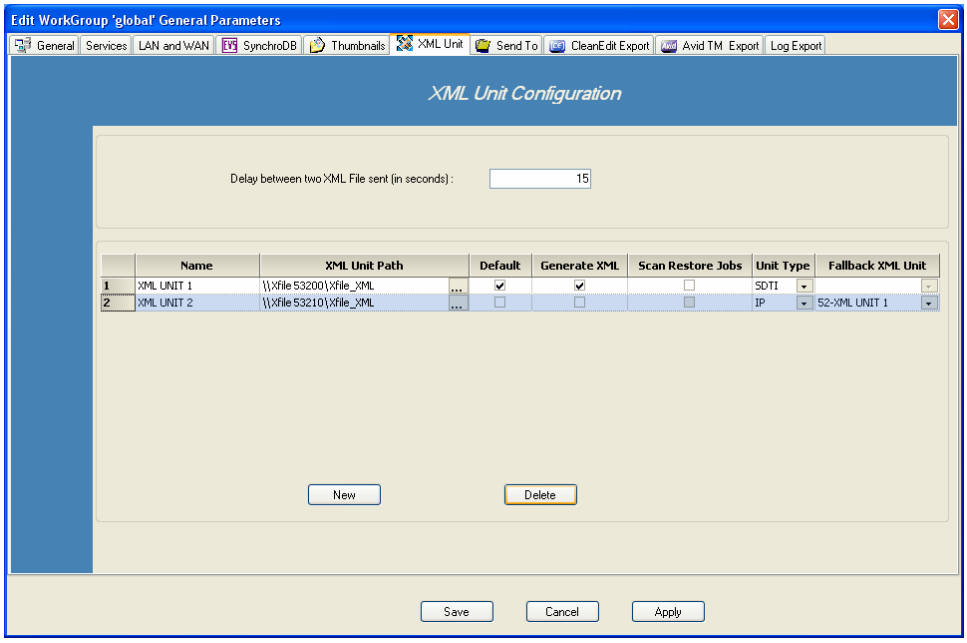
Unit Type: This function is not yet available. It's a future development for the Gigabit connection with XT[2]. By default, use SDTI option.

Fallback XML Unit: This function is not yet available. It's a future development for the Gigabit connection with XT[2].

Note: All XML units are global to all IP Director workstations on the network. They must only be defined once and can be defined on any workstation.

Delete a XML unit.

Click on the unit number to select it.

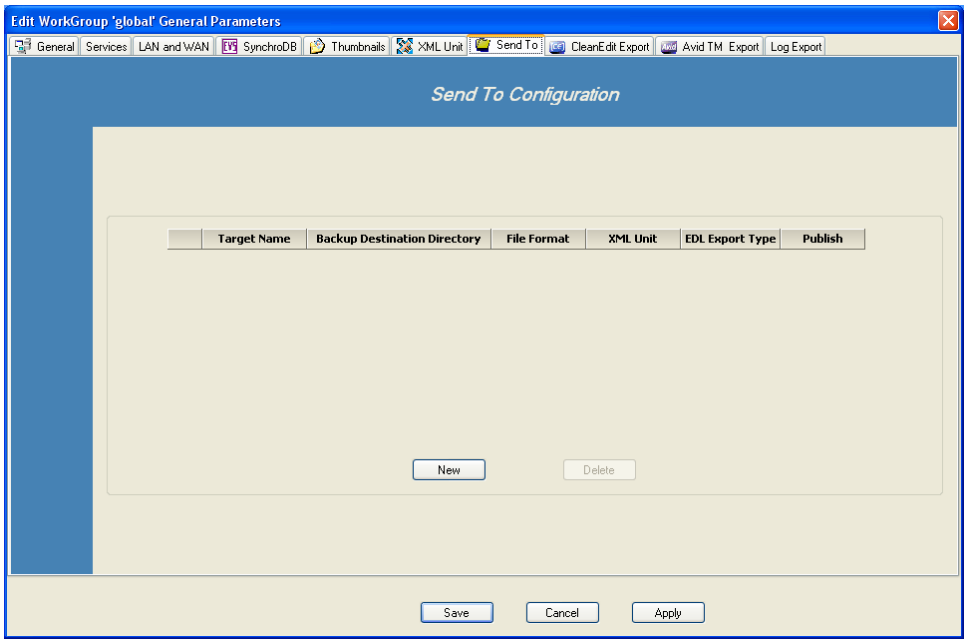


Click on the '**Delete**' button.
Once all XML Units are configured, click on the Apply button.

SEND TO CONFIGURATION

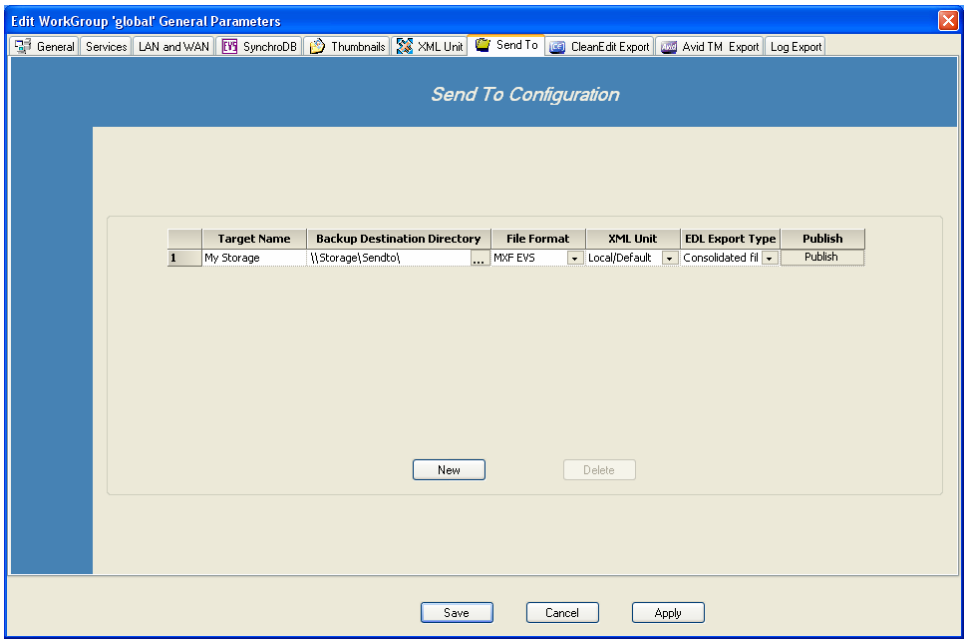
This tab should be used to pre-configure the destination directories where clips are to be sent from the IP Director interface using the 'Send To -> Destination folder' option.

Select the Send to tab.



Create a new Destination Directory (target)

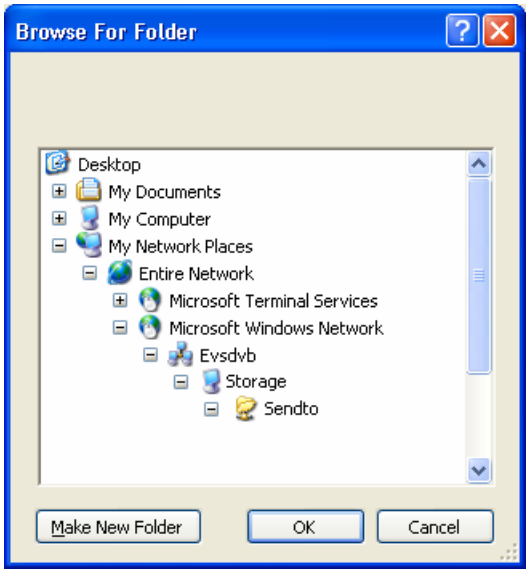
Click on the 'New' button to add a new folder.



Note: A new destination target can also be created from the IP Director GUI, from the 'Send To' menu.

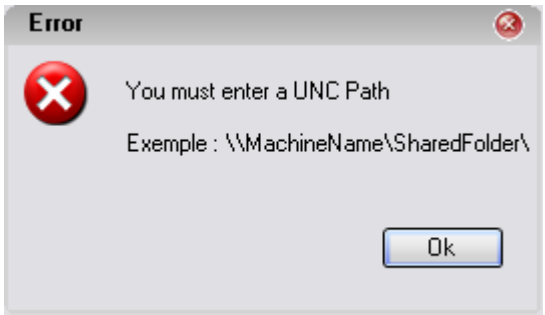
A new line is added in the unit list. Click in the 'Target Name' column and give a name to the target. This name will appear in the IP Director 'Send To' menu. It is used to identify the destination target in the IP Director interface.

Click in the 'Backup Destination Directory' field, and then click on the browse button ... to select the folder where the MXF files will be sent. This folder should be a UNC path to the network locations where the folder exists.

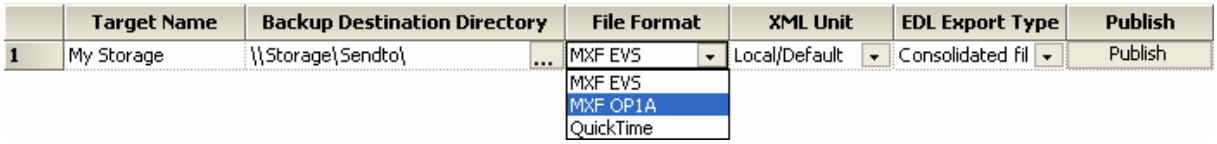


Note: Only UNC DNS name or IP address path are valid. (Ex: \\MachineName\Target\, \\1.1.1.100\Target\)
No local paths are valid.

A message appears if the selected path is not valid:



Click the 'File Format' column and choose the MXF EVS, the MXF OP1A or QuickTime format. It defines the type of files which will be created by the XFile system.

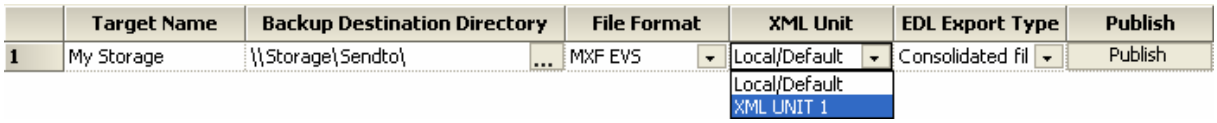


Note: MXF OP1A files are standard IMX formatted files. These can only be specified if the system consists entirely of XT[2] series servers operating in a SD IMX codec configuration.

Please refer this table to configure the *File Format* of targets.

	File format		
Video format	MXF	OP1A	Quicktime
IMX	OK	OK	OK
MJPEG	OK	N/A	OK
DNxHD	OK	N/A	N/A

Click the XML Unit column and select the XML unit used to perform the job. Choose one specific unit in the list if the job must be performed by the XFile system where this XML unit is located (the XML unit is linked to the destination target), otherwise select Local/Default.



For example, if the destination directory is \\XFILE13350\backup, it should be interesting to link the XML unit to XFILE13350 to be sure this XFile will backup the clip. This will avoid network transfer between XFile on the IP network.

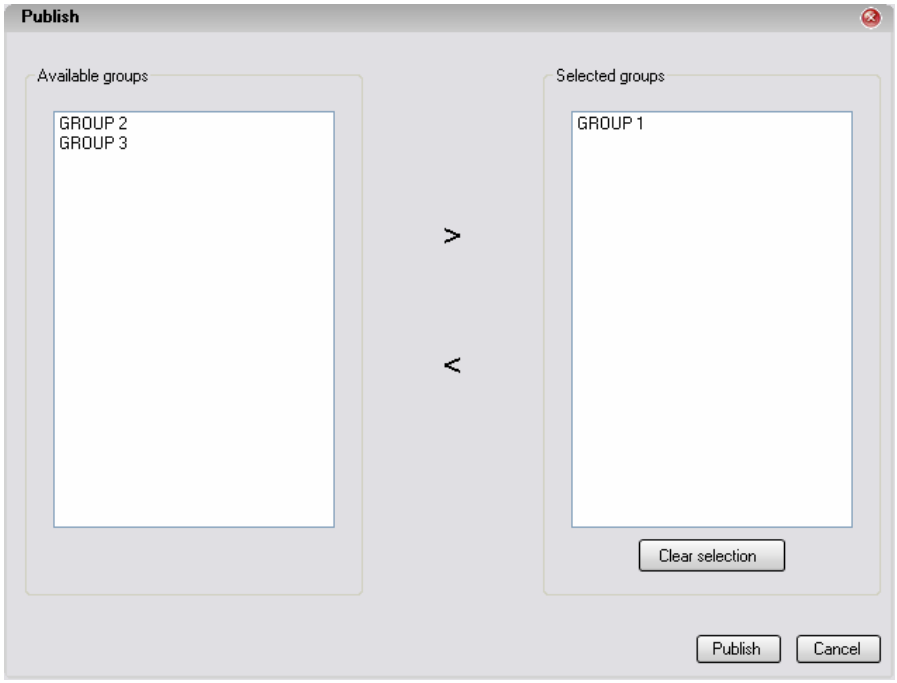
Note: The Default target is defined in the XML Unit tab, the Local unit linked to one IP Director workstation can be defined in the IP Director configuration tab.

EDL Export Type:

- Consolidated file: The playlist is sent consolidated without transition effects. Only available in IMX withOP1A file format.
- EDL only: An EDL (XML file) is created with Playlist information inside the XML Unit Path (not inside the Backup Destination Directory). This XML Unit Path must contain a folder *Jobs_Incoming* where the EDL (XML) file will be sent.

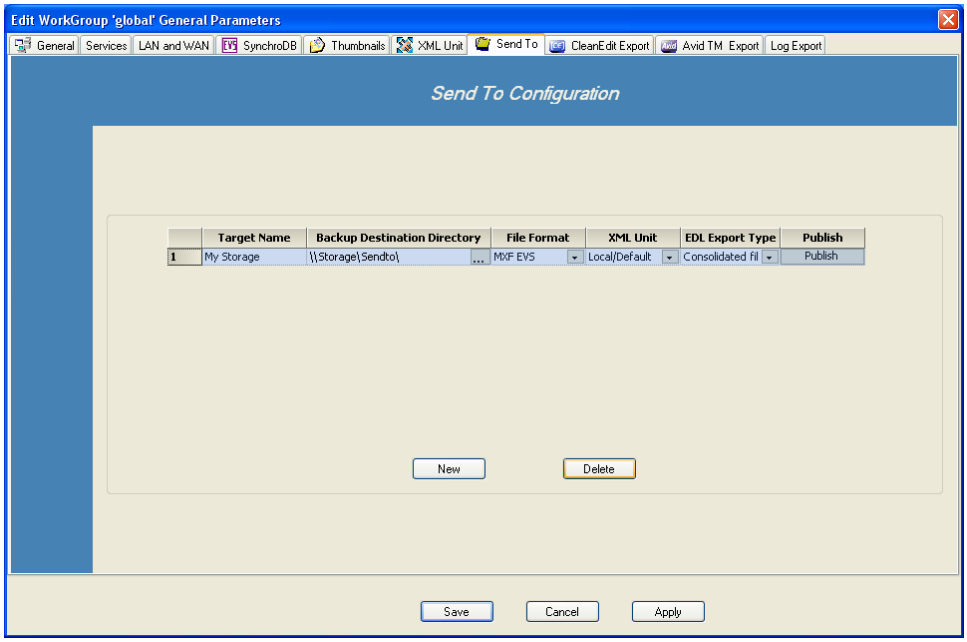
If this destination target must be visible to other groups, click on the Publish button and a new window pops up to allow you to publish to different groups. Select group(s) in the left side and click the arrow '>' to push group(s) to the right side. Finally, click on Publish.

Groups are created in the User Manager application (see User Manager Chapter).



Delete a Destination Target.

Click on the line number to select it.

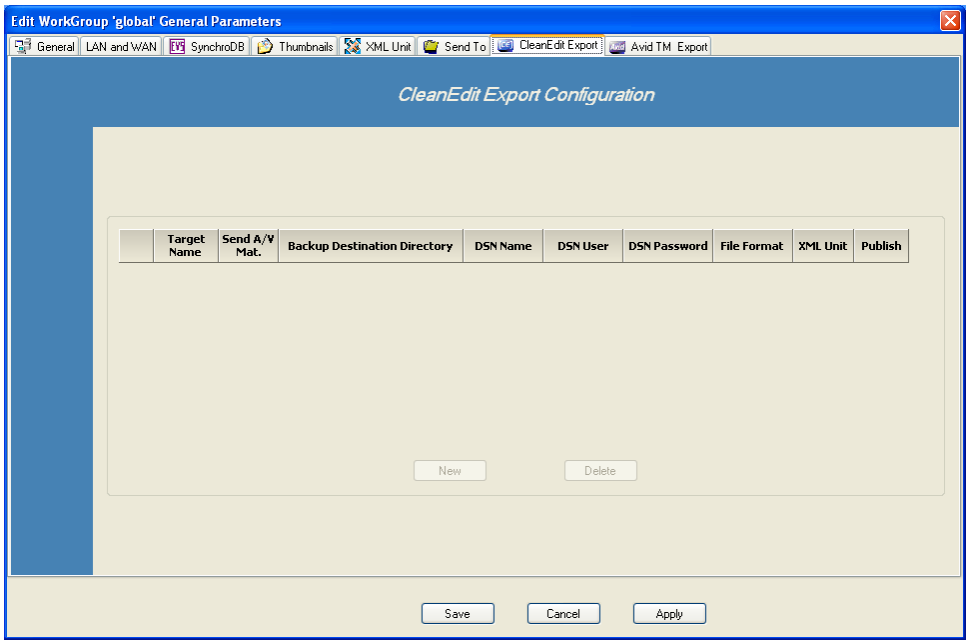


Click on the '**Delete**' button.

CLEANEDIT CONFIGURATION

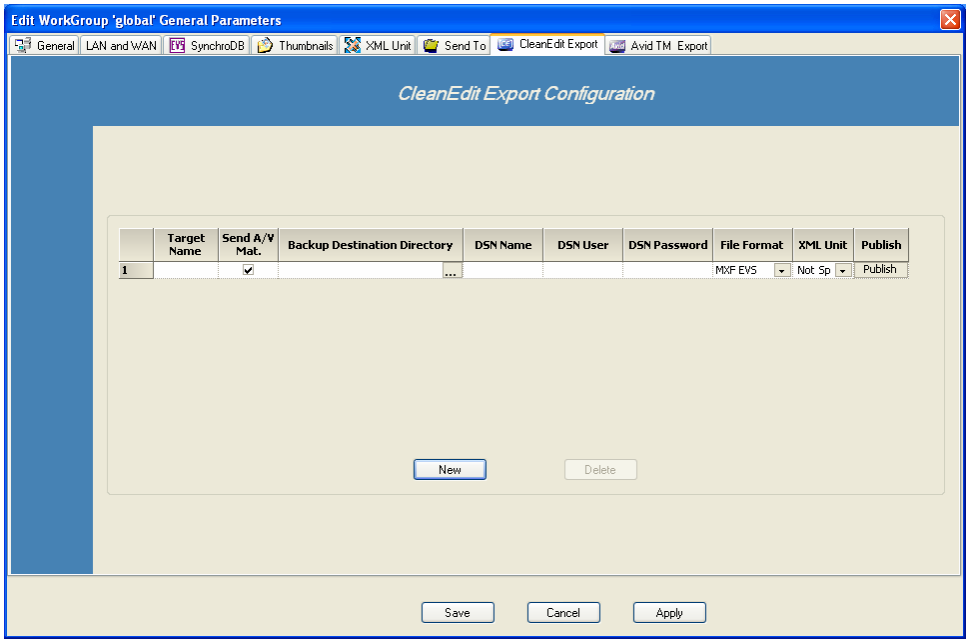
This tab is used to define and configure the different Clean Edit destination target(s) available on the network where clips are to be sent from the IP Director interface using the 'Send To' option.

Select the CleanEdit Export tab.



Create a new Clean Edit destination target

Click on the 'New' button to add a new target.

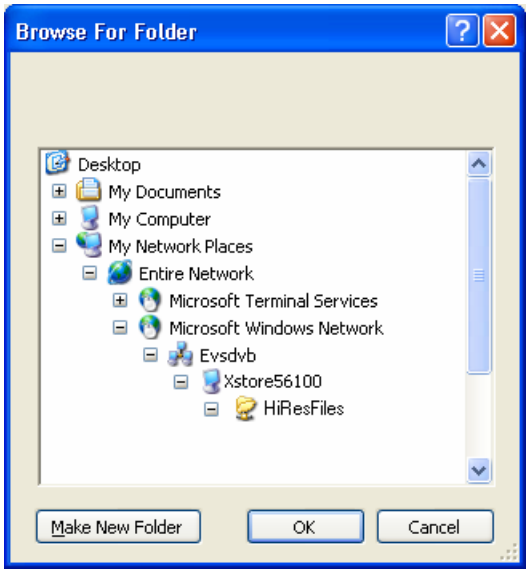


A new line is added in the unit list. Click in the 'Target Name' column and give a name to the target. This name will appear in the IP Director 'Send To' menu. It is used to identify the Clean Edit target in the IP Director interface.

First, check the Send A/V Mat Box to send video and audio material to the CE target and update the CE Database.

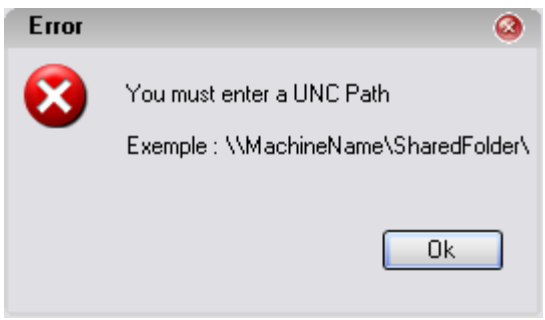
If the Send A/V Mat Box is not checked, IP-Director sends only a XML file in the folder scanned by the Auto File Importer (CE component). Define a dedicated XML unit pointing on this folder. In this mode, unnecessary settings are greyed (Backup Destination Directory, DSN Name, DSN User, DSN Password and File Format).

Click on the browse button ... to select the folder where the MXF files will be sent. The path is usually \\HiResFiles. For more information, see also CleanEdit User guide. This folder should be a UNC path to the network locations where the folder exists.



Note: Only UNC DNS name or IP address path are valid. (Ex: \\XStoreName\HiResFiles\, \\1.1.1.100\HiResFiles\)
No local paths are valid.

A message appears if the selected path is not valid:



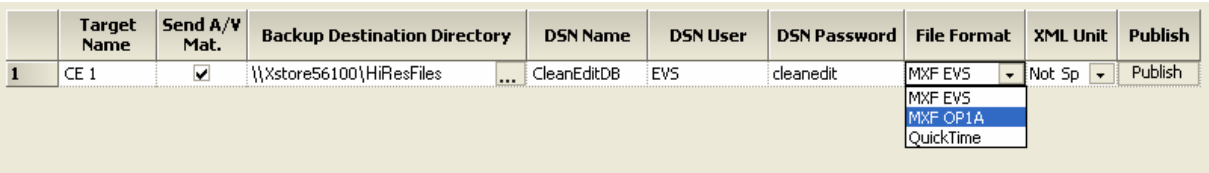
Note: Specify the same path in the Auto File Importer application inside the CleanEdit suite.

Click the 'DSN Name' column and enter a DNS Name:
DNS (Domain Name Server that will allow you to access to the CleanEdit Database).

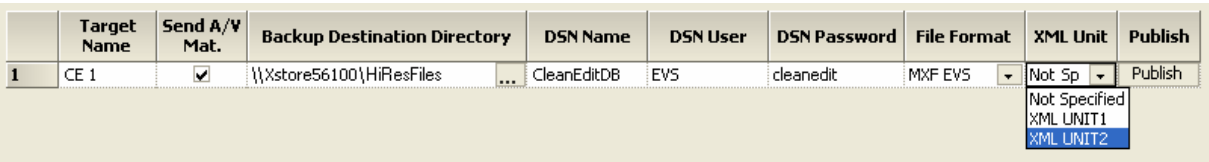
Click the 'DSN User' column and enter the corresponding DNS User to access to CleanEdit Database).

Click the 'DSN Password' column and enter the corresponding DNS Password to access to CleanEdit Database).

Click the 'File Format' column and choose the MXF EVS, the MXF OPIA or QuickTime format. It defines the type of files which will be created by the XFile system.
MXF EVS and QuickTime will save file in IMX or MJEPG format (depending of the Video Server configuration).
MXF OP1A will save file only in IMX format. These can only be specified if the system consists entirely of XT[2] series servers operating in a SD IMX codec configuration.

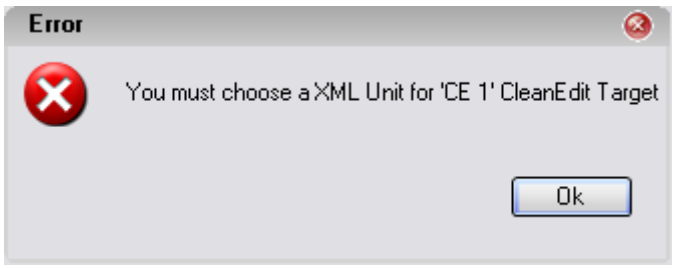


Click on the XML Unit column to specify the XML unit which will be used to perform the job. This unit should be located on the XFile which will update the CleanEdit database (Send A/V Mat checked) or directly in the folder scanned by Auto File Importer on a CE workstation (Send A/V Mat unchecked).

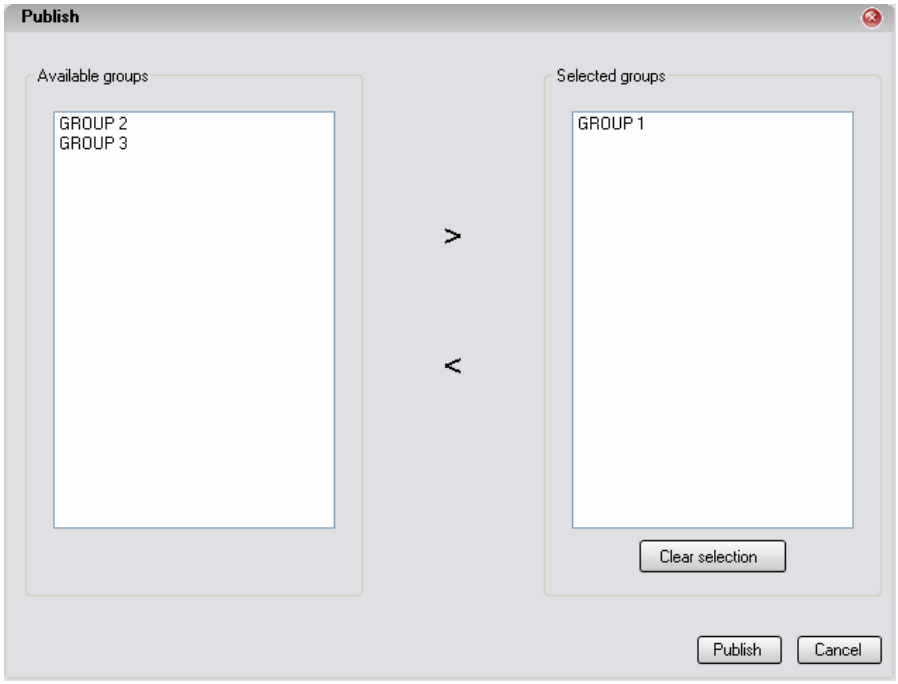


Note: You cannot save the configuration if no XML Unit is defined.

A message appears if the XML Unit is not specified:

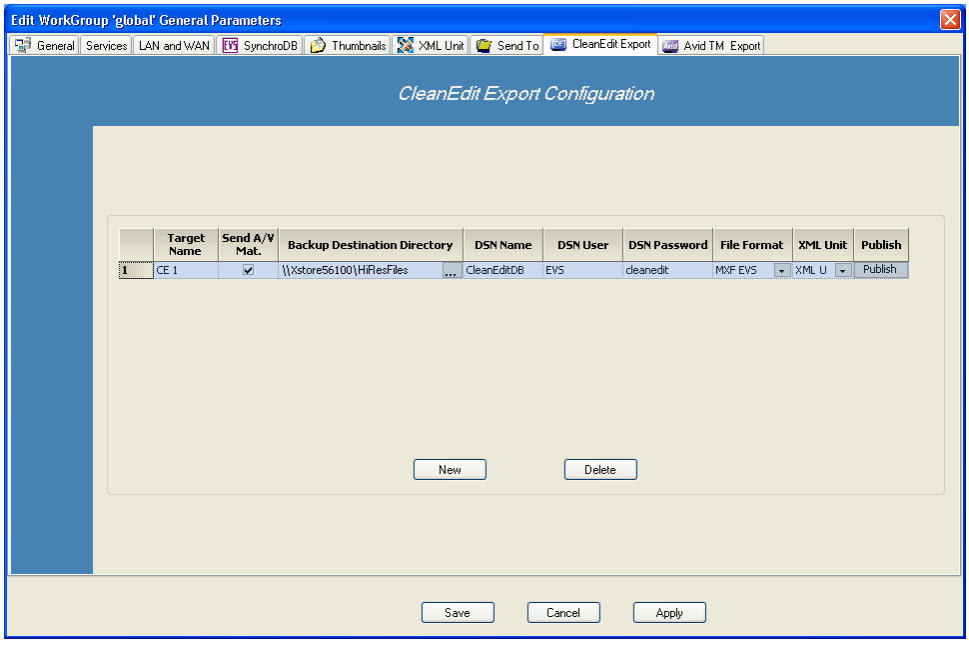


If this Clean Edit target must be visible to other groups, click on the Publish button and a new window pops up to allow you to publish to different groups. Select group(s) in the left side and click the arrow '>' to push group(s) to the right side. Finally, click on Publish.



Delete a Clean Edit target.

Click on the line number to select it.

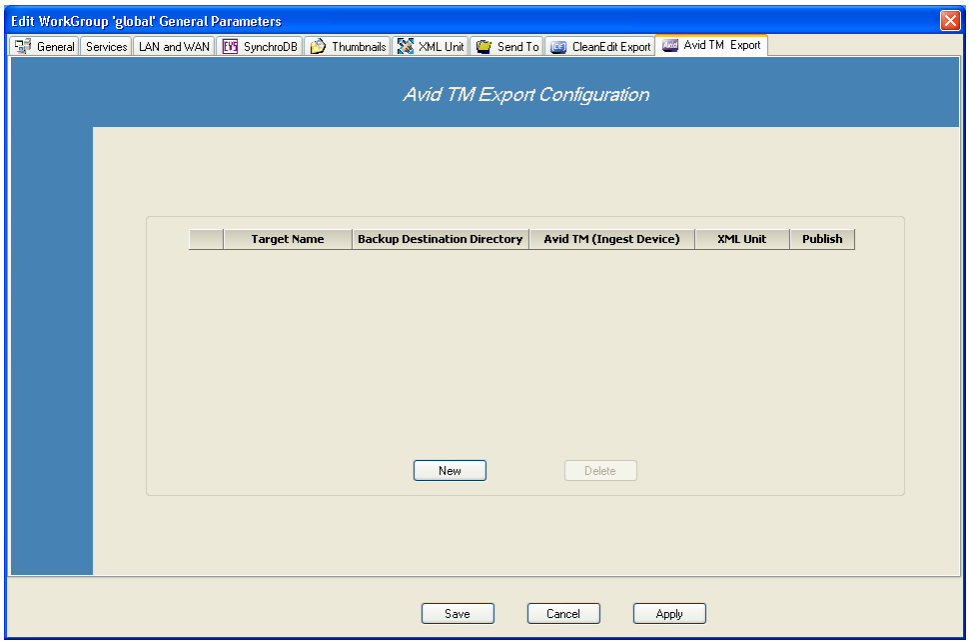


Click on the '**Delete**' button.

AVID TM CONFIGURATION

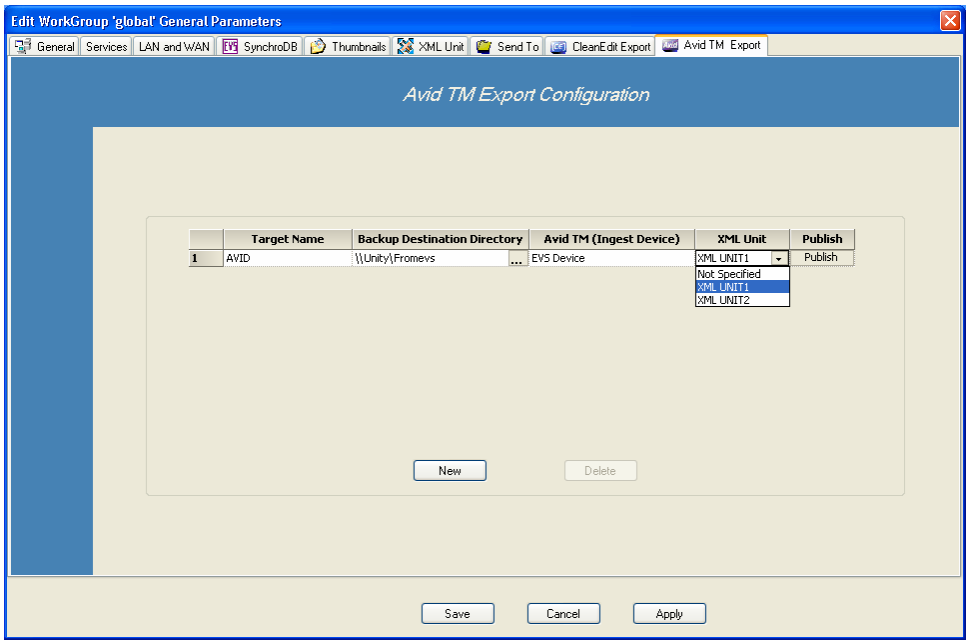
This tab must be used to define and configure the different AVID destination target(s) available on the network where clips are to be sent from the IP Director interface using the 'Send To' option

Select the Avid TM Export tab.



Create a new AVID target

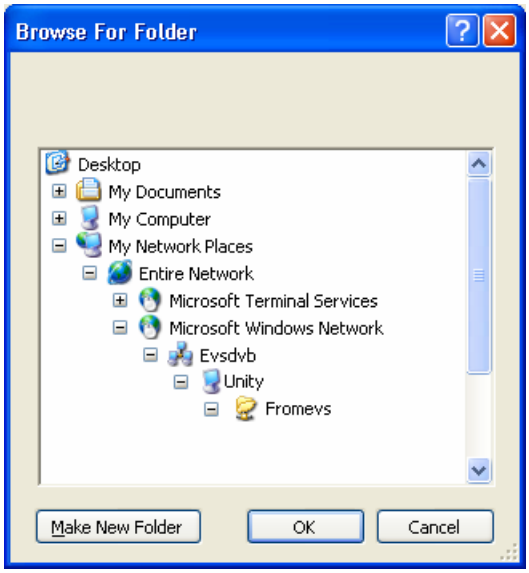
Click on the 'New' button to add a new target.



A new line is added in the unit list. Click in the 'Target Name' column and give a name to the target. This name will appear in the IP Director 'Send To' menu. It is used to identify the AVID target in the IP Director interface.

Click on the browse button ... to select the temporary folder where the AVID files will be sent before being transfer to Avid TM.

Note: Since version 4, this temporary folder is not used anymore but must be defined.



Click the 'Avid TM (Ingest Device)' column and enter the Name of the AVID Device.

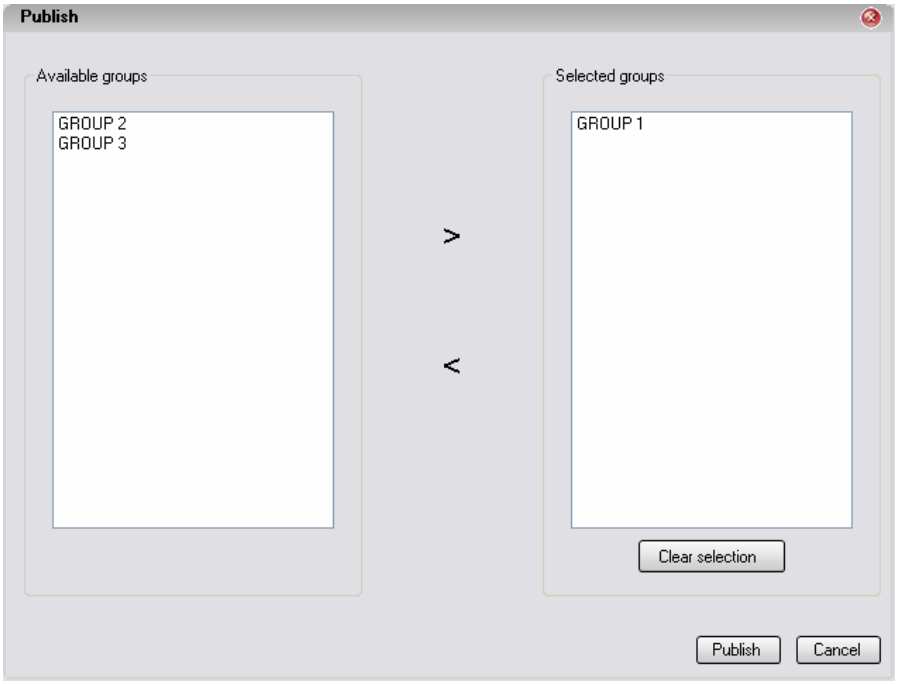
Avid TM (Ingest Device): Name of the EVS Device for the interface with Avid Transfer Manager Server. This information is used by Avid Transfer Manager Server to specify from which ingest device the transfer is initiated.

Click on the XML Unit column to specify the XML unit which will be used to perform the job. This unit should be located on the XFile which will be connected to the AVID Transfer Manager.

Note: You cannot save the configuration if no XML Unit or Backup Destination Directory is defined.

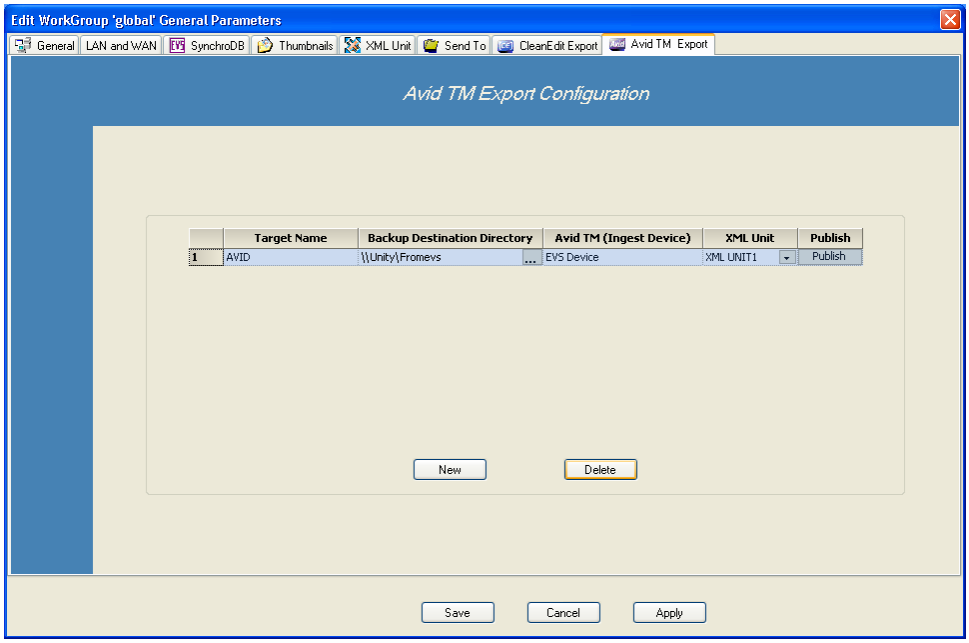
A message appears if the XML Unit is not specified:

If this destination target must be visible to other groups, click on the Publish button and a new window pops up to allow you to publish to different groups. Select group(s) in the left side and click the arrow '>' to push group(s) to the right side. Finally, click on Publish.



Delete an AVID target.

Click on the line number to select it.



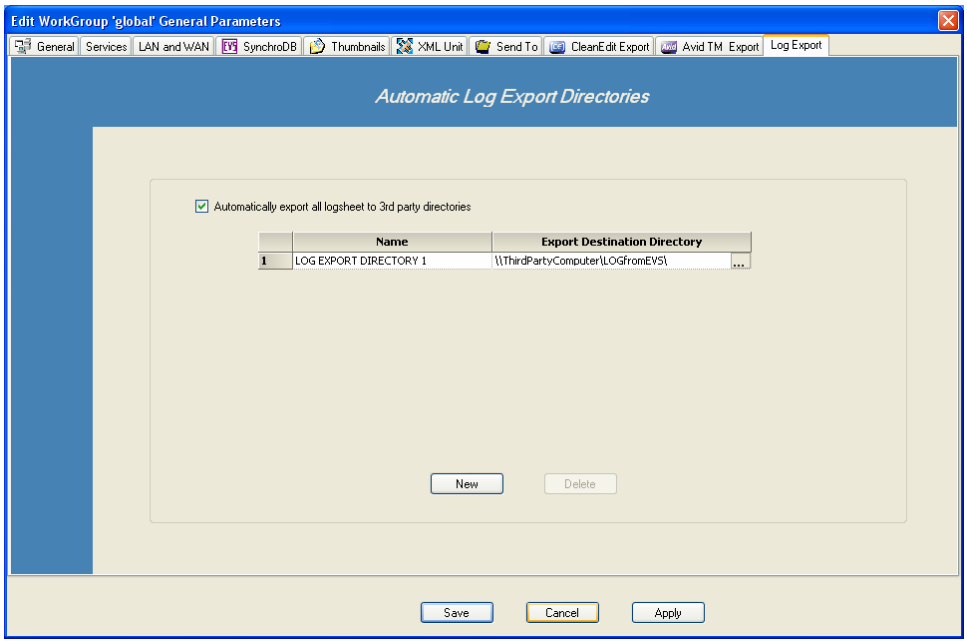
Click on the '**Delete**' button.

Once all tabs are configured, click on the Save button.

LOG EXPORT CONFIGURATION

This tab must be used to define and configure the Log Export directories available on the network where logs, logsheets and modifications are sent as XML Third Party files.

Select the Log Export tab.



Enable the option "*Automatically export all logsheets to 3rd party directories*" to export all logging operations done on every new log sheet that will be created in the IPDirector workgroup.

If this option is disabled and the *Export Destination Directory* is defined, the IP Director operator manually decides which logsheet will be exported. During the logsheet creation, this option is available inside the Step1 of its properties. Once the creation is completed, the option can not be changed.

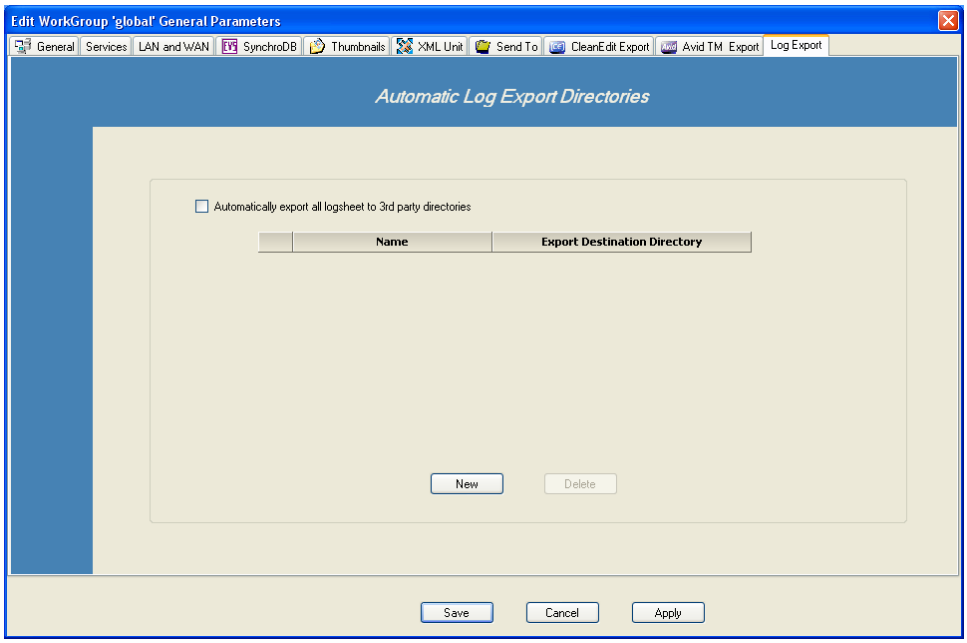
Please refer to the Logsheet Creation chapter in the Ip Director user's manual.

Note: All Services (IPD-Routing, SynchroDB, IP-Director, IP-Scheduler and VTR Engine) must be stopped to enable or disable the automatic feature. The *Export Destination Directory* can be edited at any time.

Note: Please contact EVS staff for additional information about 3rd Party features.

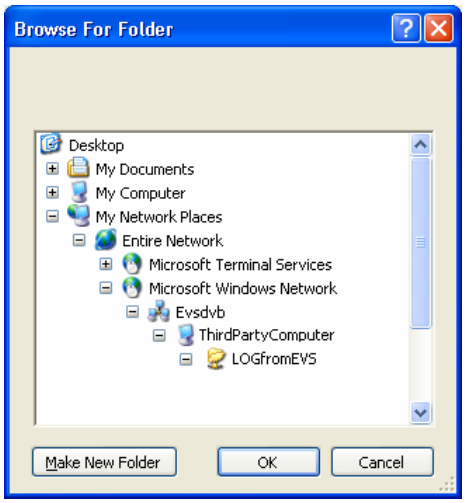
Create a new Log Export directory

Click on the 'New' button to add a new directory.



A new line is added in the list. Click in the 'Name' column and give a name to the Export Log Directory.

Click on the browse button ... to select the folder where logging XML files will be sent to Third Party systems or to other IPDirector workgroups.

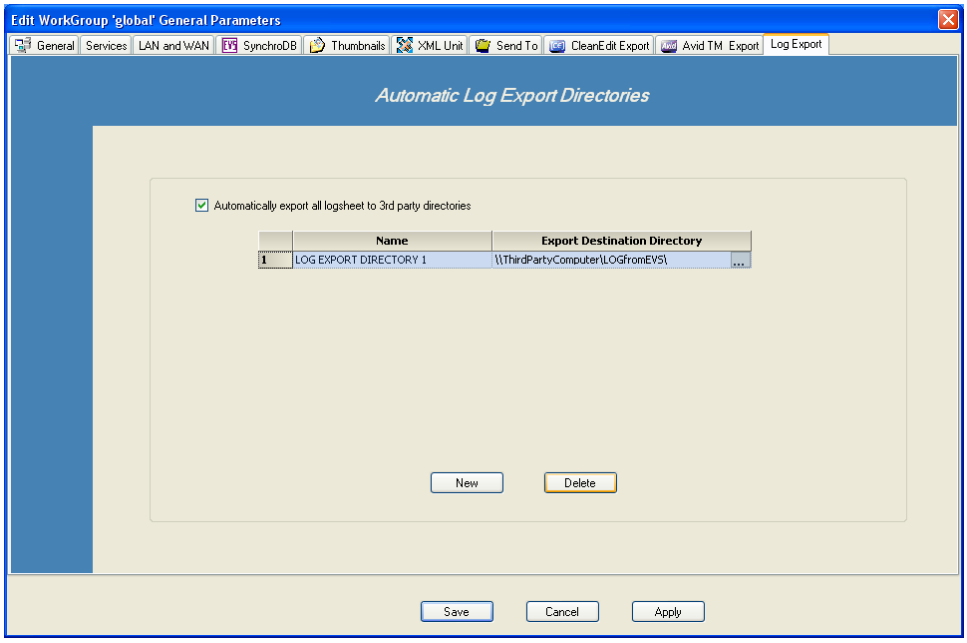


Note: Only UNC DNS name or IP address path are valid. (Ex: \\ThirdParty\LOGfromEVS\, \\1.1.1.100\LOGfromEVS\)
No local paths are valid.

Note: The directories must be shared with full access control.

Delete a Log Export directory.

Click on the line number to select it.



Click on the '**Delete**' button.

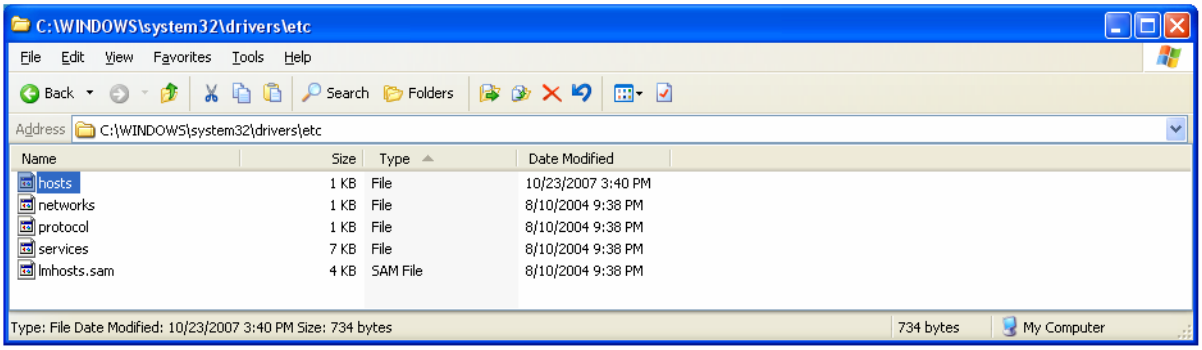
Once all tabs are configured, click on the Save button.

Populate Hosts Files

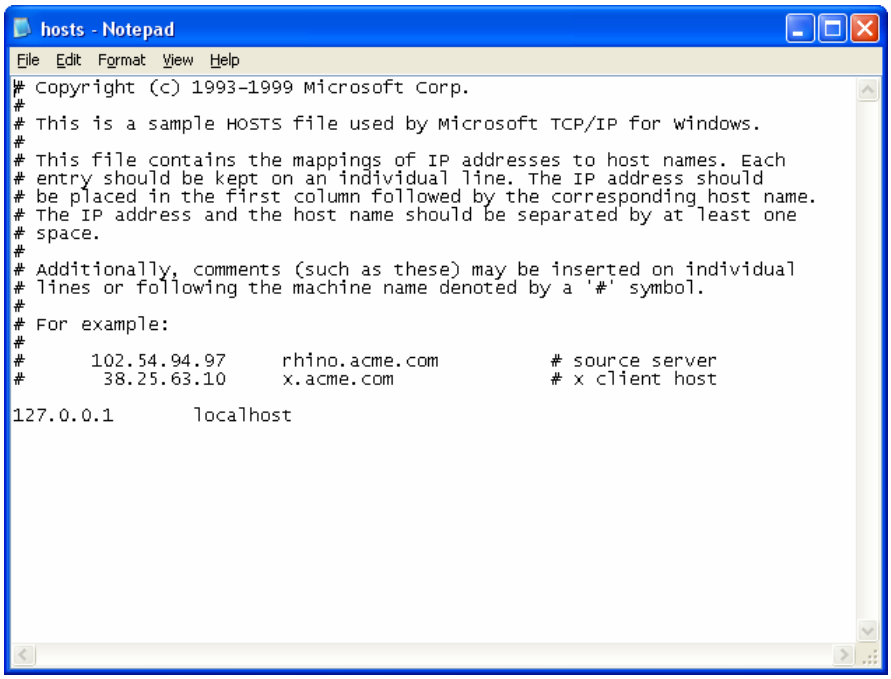
This new feature (version 04.31) reduces IP Director latencies due to LAN communications without DNS management.

IP Director needs quick responses in name resolution. When a DNS sever is not installed on your network, the easiest way to configure the correspondence between *Computer Names* and *IP Addresses* is to edit the HOSTS file inside your operating system.

The HOSTS file is located in C:\Windows\system32\drivers\etc


C:\WINDOWS\system32\drivers\etc
File Edit View Favorites Tools Help
Back Search Folders
Address C:\WINDOWS\system32\drivers\etc
Name Size Type Date Modified
hosts 1 KB File 10/23/2007 3:40 PM
networks 1 KB File 8/10/2004 9:38 PM
protocol 1 KB File 8/10/2004 9:38 PM
services 7 KB File 8/10/2004 9:38 PM
lmhosts.sam 4 KB SAM File 8/10/2004 9:38 PM
Type: File Date Modified: 10/23/2007 3:40 PM Size: 734 bytes
734 bytes
My Computer

The Windows original HOSTS file can be opened with Notepad.exe:


hosts - Notepad
File Edit Format View Help
Copyright (c) 1993-1999 Microsoft Corp.
#
This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
This file contains the mappings of IP addresses to host names. Each
entry should be kept on an individual line. The IP address should
be placed in the first column followed by the corresponding host name.
The IP address and the host name should be separated by at least one
space.
#
Additionally, comments (such as these) may be inserted on individual
lines or following the machine name denoted by a '#' symbol.
#
For example:
#
102.54.94.97   rhino.acme.com   # source server
38.25.63.10   x.acme.com   # x client host
127.0.0.1   localhost

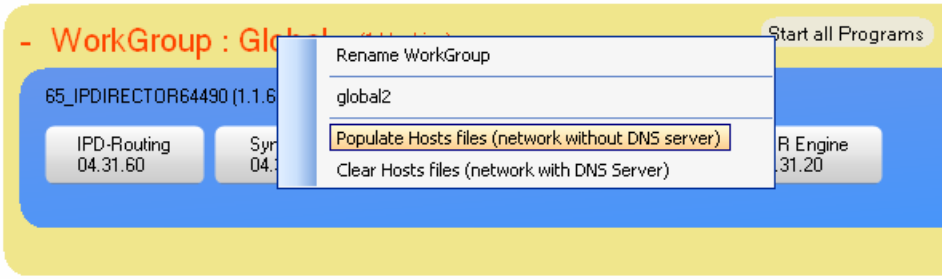
The entry (127.0.0.1 localhost) is written by default in this file.

Windows first consults this local file cache before sending its request to the DNS Sever. Without DNS Server or Hosts files, Windows introduces latencies inside our application when trying to resolve hostnames.

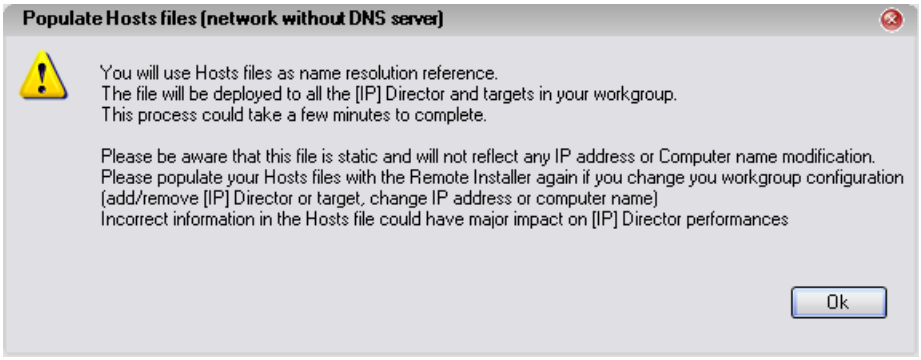
Populate new Hosts Files

This feature helps you to create and populate a common *HOSTS* file on all the IPD workstations, Databases or Targets used inside the workgroup.

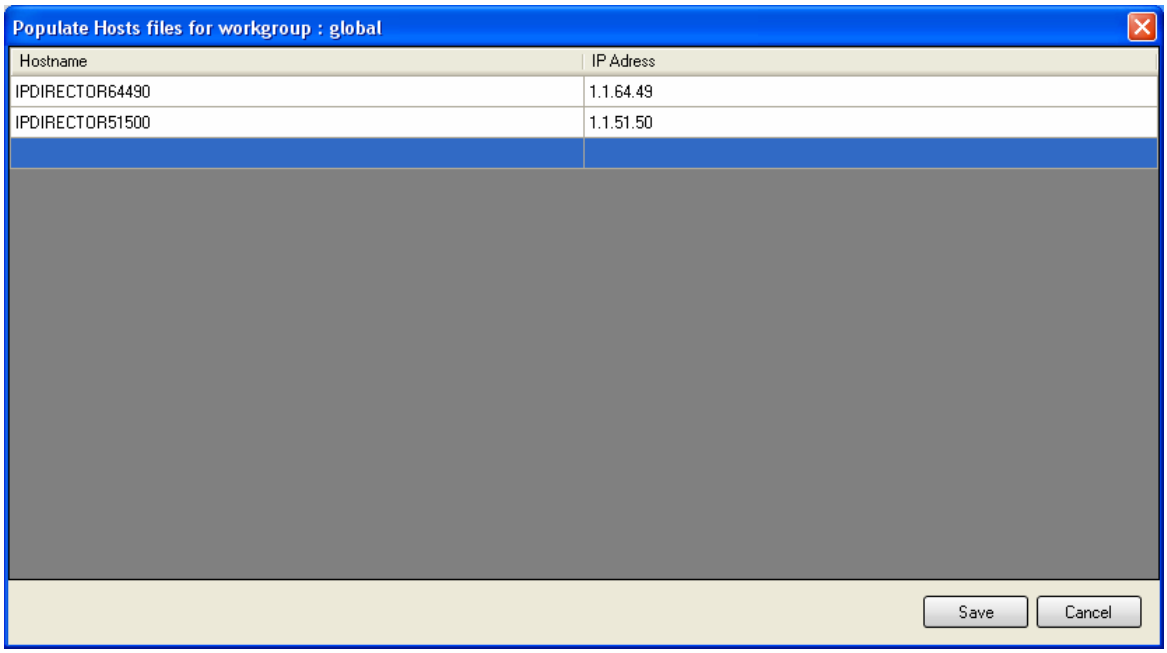
In the Remote Installer, right-click on the Workgroup's name to open this menu:



Select *Populate Hosts files (network without DNS server)*, a popup window appears:


Populate Hosts files (network without DNS server)
You will use Hosts files as name resolution reference.
The file will be deployed to all the [IP] Director and targets in your workgroup.
This process could take a few minutes to complete.
Please be aware that this file is static and will not reflect any IP address or Computer name modification.
Please populate your Hosts files with the Remote Installer again if you change you workgroup configuration (add/remove [IP] Director or target, change IP address or computer name)
Incorrect information in the Hosts file could have major impact on [IP] Director performances
Ok

Press OK to open this window:



A list is automatically created including all workstations belonging to your Workgroup. This process could take a few minutes to complete.

Press Save to populate the HOSTS file.

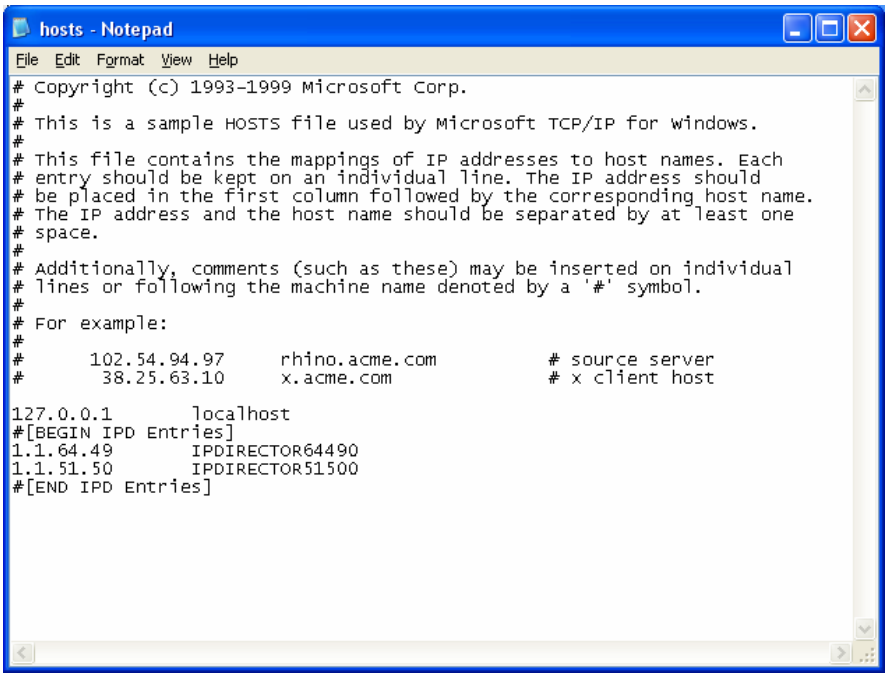
Note: Manual entries are allowed:

- Enter the hostname (computer name), the IP Address is automatically resolved.
- Enter the IP address, the hostname is automatically resolved.
- Enter both hostname and IP address.

Mirrored DB Virtual IP Address:

If using a Mirrored database, the Virtual address will be populated into the list, but may not resolve a hostname. This is OK to leave blank as the virtual will never be used via a hostname lookup.

After population, the all IPDirector, SQL Databases and devices will have the same HOSTS file showing the new common entries:


hosts - Notepad
File Edit Format View Help
Copyright (c) 1993-1999 Microsoft Corp.
#
This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
This file contains the mappings of IP addresses to host names. Each
entry should be kept on an individual line. The IP address should
be placed in the first column followed by the corresponding host name.
The IP address and the host name should be separated by at least one
space.
#
Additionally, comments (such as these) may be inserted on individual
lines or following the machine name denoted by a '#' symbol.
#
For example:
#
102.54.94.97   rhino.acme.com   # source server
38.25.63.10   x.acme.com   # x client host
127.0.0.1   localhost
#[BEGIN IPD Entries]
1.1.64.49   IPDIRECTOR64490
1.1.51.50   IPDIRECTOR51500
#[END IPD Entries]

Note: Entries done by the Remote Installer are inserted between these two tags: #[BEGIN IPD Entries] - #[END IPD Entries]. This section allows for replacement and deletion of this group by the remote installer at a later time.

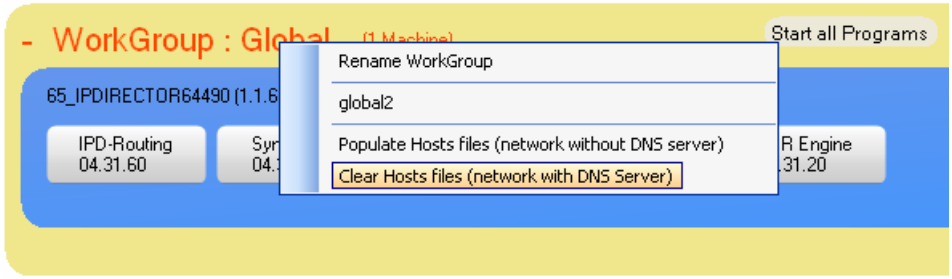
These entries can also include database, target computer, Xfile or 3rd Party computer present in the workgroup configuration.

Note: The creation and population of the HOSTS file must be done after your configuration and repeated after all modifications on your network or in the configure tab.

Clear populated Hosts Files

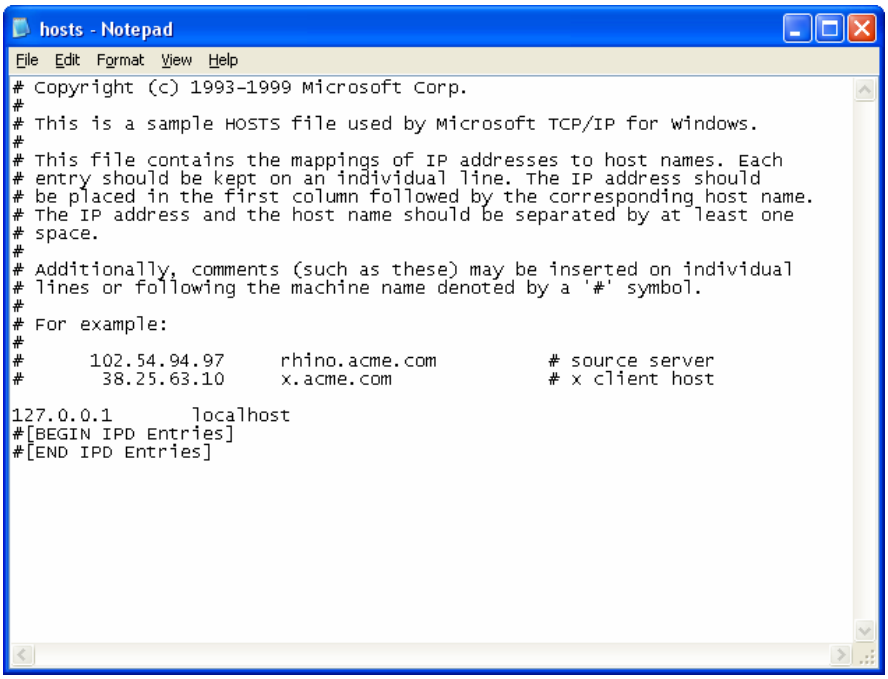
If a DNS Server is installed on your network, the HOSTS files must be cleared.
It is strongly recommended to clear the HOSTS files before dismantling your setup.

In the Remote Installer, right-click on the Workgroup's name to open this menu:



Select *Clear Hosts files (network with DNS server)* to remove IP Director's entries inside the workstation HOSTS files.

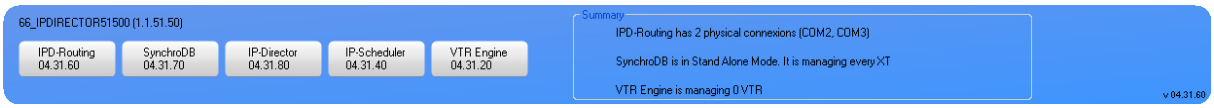
The cleared HOSTS file will look like this screenshot:


hosts - Notepad
File Edit Format View Help
Copyright (c) 1993-1999 Microsoft Corp.
#
This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
This file contains the mappings of IP addresses to host names. Each
entry should be kept on an individual line. The IP address should
be placed in the first column followed by the corresponding host name.
The IP address and the host name should be separated by at least one
space.
#
Additionally, comments (such as these) may be inserted on individual
lines or following the machine name denoted by a '#' symbol.
#
For example:
#
102.54.94.97   rhino.acme.com   # source server
38.25.63.10   x.acme.com   # x client host
127.0.0.1   localhost
#[BEGIN IPD Entries]
#[END IPD Entries]

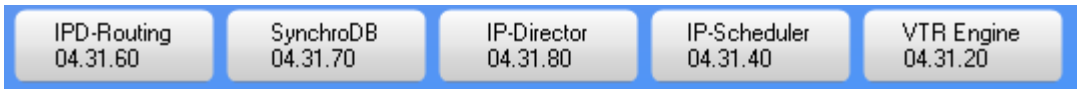
All entries inserted between tags #[BEGIN IPD Entries] - #[END IPD Entries] are deleted. If you insert manual entries in your HOSTS files for other IT application, write them outside the 'IPD Entries' tags.

IPD Routing service management

Each IPDirector workstation on the network is represented as follows:



A workstation configuration is divided in 5 modules:

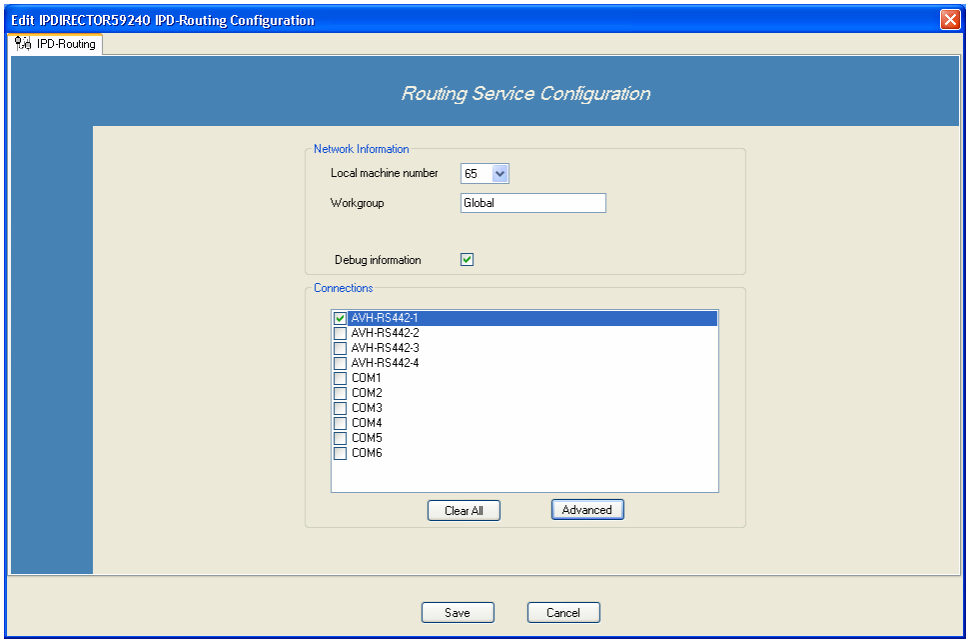


Press 'Stop All Running Programs' to start configuring modules.

CONFIGURE IPD ROUTING

Right click on the IPD-Routing box and select 'Edit Config' from the contextual menu.

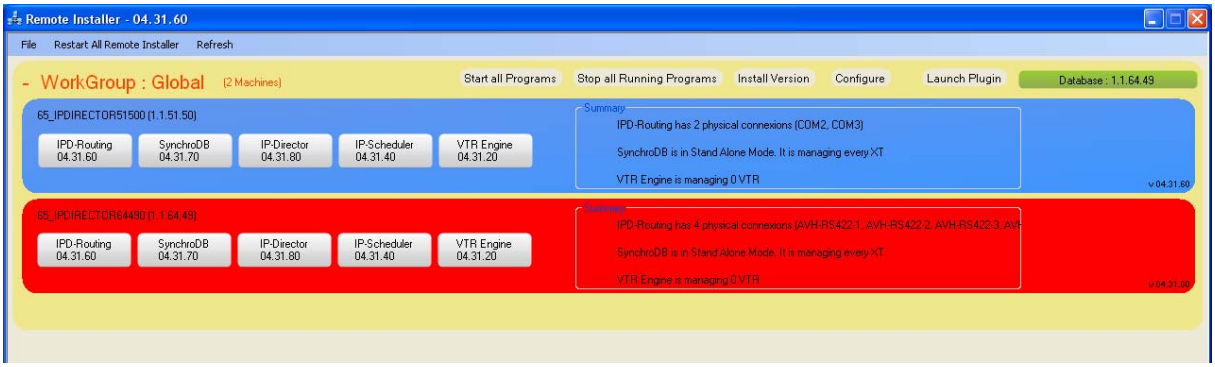
The Routing Service Configuration window opens:



Local machine number:

The Local machine number field is used to assign an ID to an IP Director workstation in the network. All workstations in the network must have a different number and must be from 65 to 128. Numbers from 1 to 29 are reserved for XT servers.

If several machines have the same network number, a conflict is detected by the Remote Installer, in this case the colour of theses involved machines turns red. At the lower right corner, the NumUser status box turns red also.



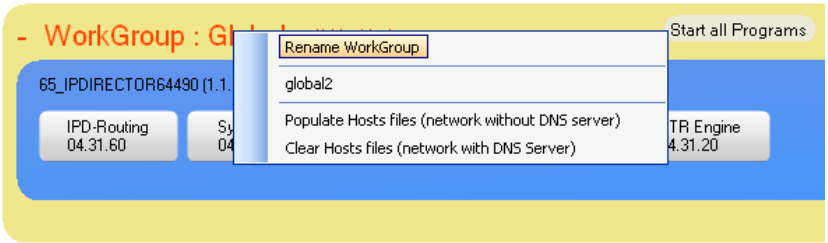
Workgroup:

The Workgroup defines the workgroup name to be used by this IP Director Workstation. Normally all workstations MUST be in the same defined workgroup name.

Note: This workgroup is created at the start-up of IP Director Routing and does not have to be the same as the XP Window's workgroup.

Rename an existing Workgroup:

When your workgroup is already created with one or several workstations, right click its name and select 'Rename Workgroup' to specify a new one.



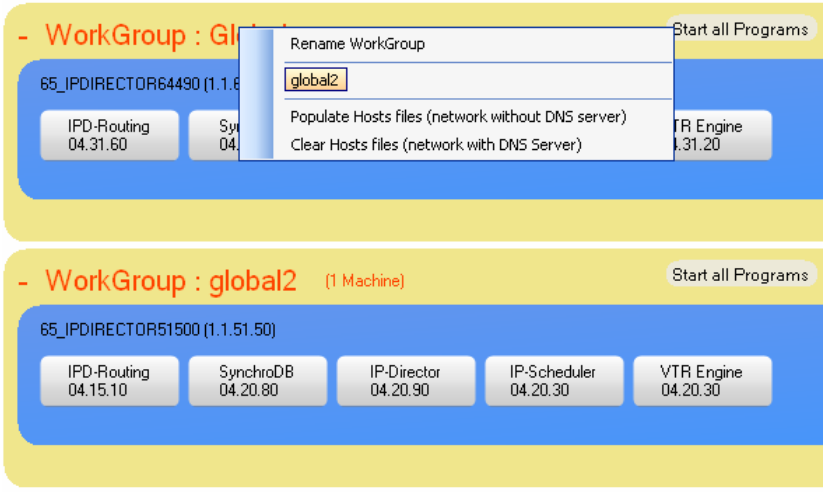
A popup window is displayed:

Enter the new Workgroup name and press OK.

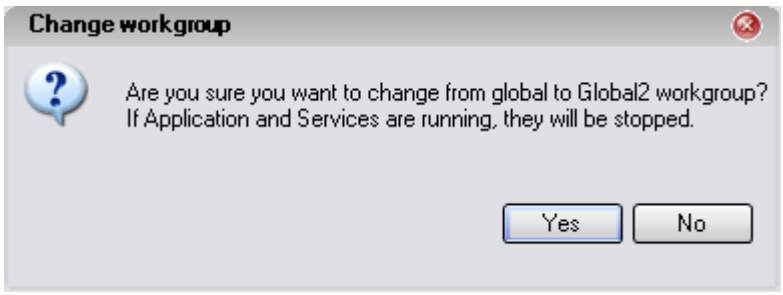
Transfer the workstations from a Workgroup to another one:

If you have added many new IP Director workstations to an existing system, you have the option to easily move the new workstations into the previously created workgroup.

Right click on the source workgroup name and select a target workgroup in the list.



A popup window is displayed:


Change workgroup
Are you sure you want to change from global to Global2 workgroup?
If Application and Services are running, they will be stopped.
Yes
No

Click Yes to confirm the transfer, No to cancel it.

All the workstations belong now the target Workgroup.

Note: All Services (IPD-Routing, SynchroDB, IP-Director, IP-Scheduler and VTR Engine) must be stopped to apply changes.

Debug information:

The “Debug information” box is set to off by default. Check it only if you need to track a routing issue. This parameter should only be turned on under EVS staff supervision.

Connections:

Select from the ‘connection list’ all the RS422 connection(s) the local workstation have with the XT servers. Those RS422 connections can be of 2 types: AVH-RS422 (using an internally mounted EVS USB to RS422 module) or COM (using a RS422 port from a Serial converter card like MOXA). 4 AVH-RS422 connections and 6 COM connections are possible. However, only 4 connections may be managed from one IPDirector workstation at any time.

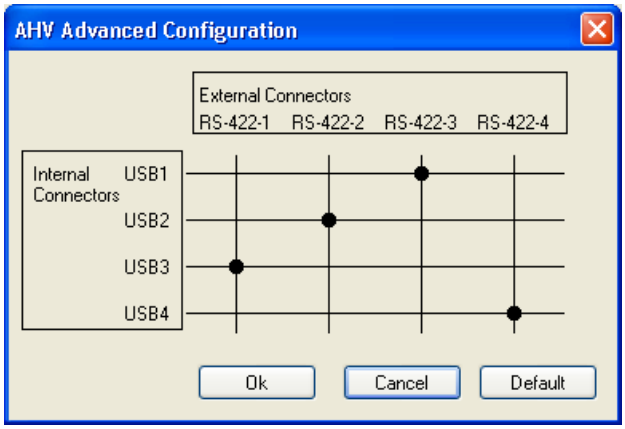
Note: COM Ports are now correctly identified regarding cables and backplanes labelling.

Clear All:

The Clear All button unchecked all boxes.

Advanced:

Click on the Advanced button to open this window:



AHV Advanced Configuration access to advanced patch features between physical external connectors and internal associated Windows USB ports.

Keep default parameters by clicking on Default then OK.

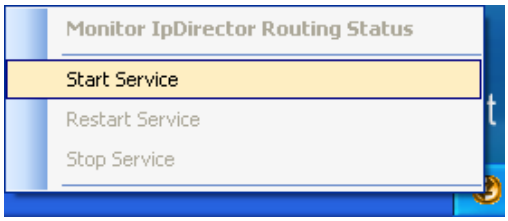
Note: All parameters are local to the IP Director workstation and must be set independently on all IP Director workstations.

START IPD ROUTING

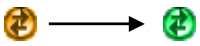
To start IPD Routing: Right click the IPD routing zone and select Start.

The IPD-Routing box turns green: the Routing has been successfully started.

The IPD-Routing can be also started from the icon in the Windows Taskbar. Right click the icon and select Start.



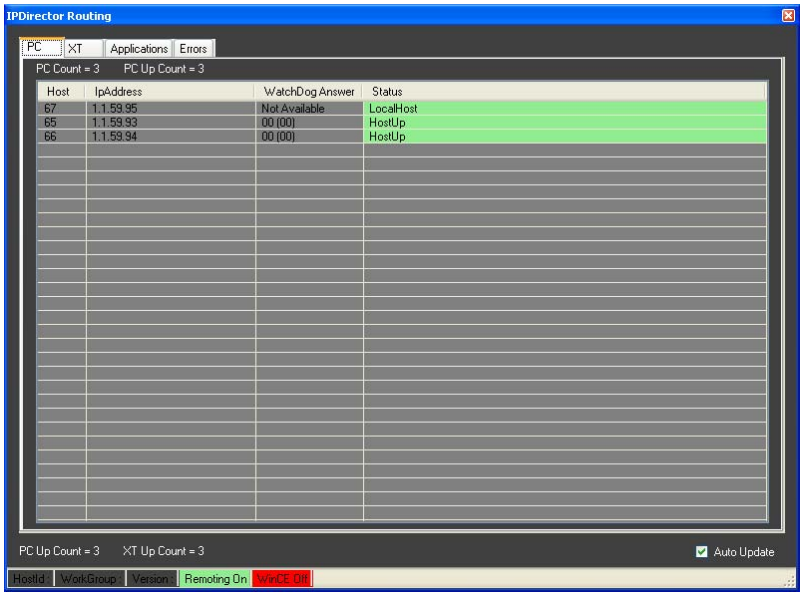
The orange icon becomes green in the Windows XP System Tray of the workstation where the service is started:



Note: In version 4, the IPD Routing can't be started from the START Menu. IPD Routing is a Windows services loaded at the Windows start up.

Note: The IPD Routing starts automatically when IPDirector is started from the Remote installer or by double-clicking on the desktop icon.

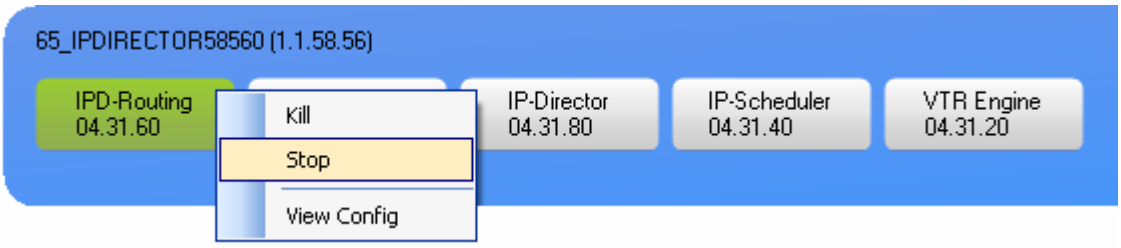
The IPDirector Routing Status window:



Right click the IPD Routing icon (Monitor IPDirector Routing Status) opens the windows. This window automatically closes itself after a few minutes.

STOP IPD ROUTING

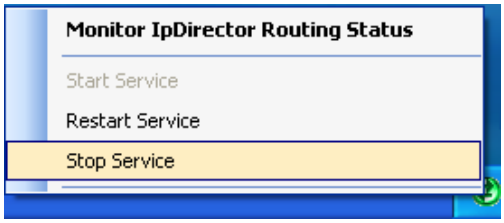
To stop the IPD Routing service, the IPD Routing zone must be green. Then, right click on it and select Stop or Kill.



Stop will close properly the IPD Routing service and Kill will stop the IPD Routing Process.

View Config previews the IPD-Routing Configuration window while service is running. Parameters edition is disabled.

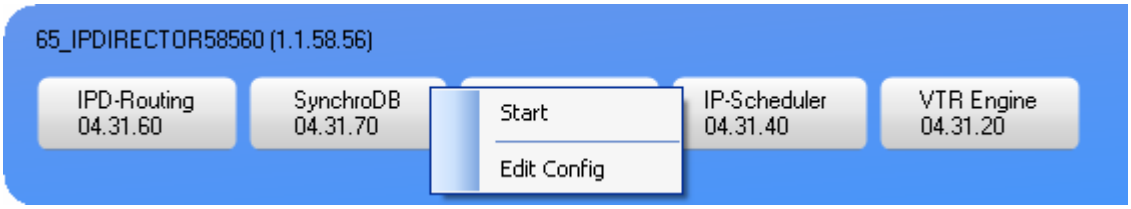
Note: You can also stop or restart the IPD Routing service by right clicking the toolbar icon and selecting “Stop Service” or “Restart Service”.



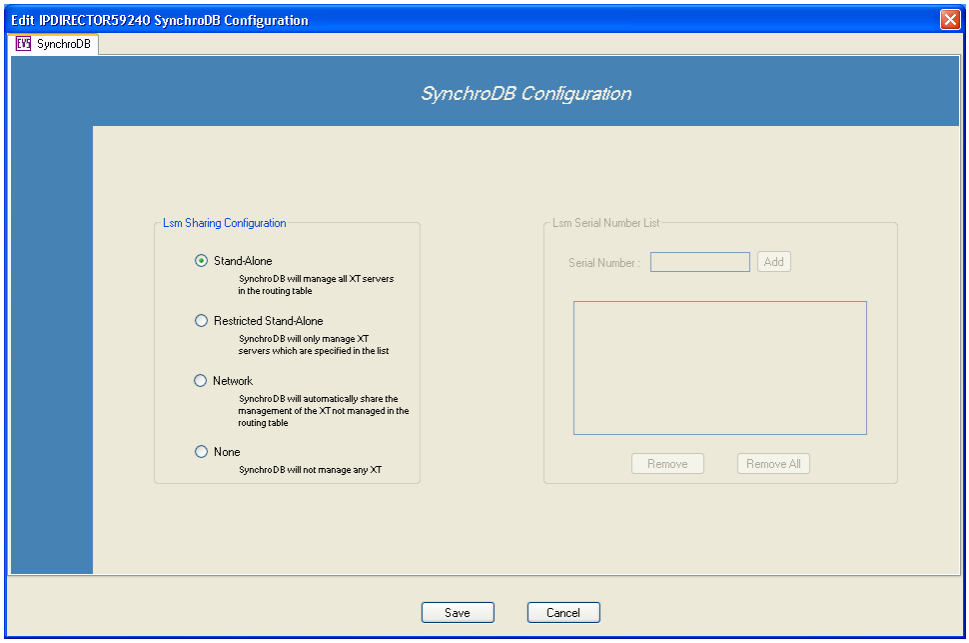
SynchroDB Management

CONFIGURE SYNCHRODB

After having configured IPD-Routing, right click the SynchroDB button and select Edit Config from the contextual menu.



The SynchroDB Configuration window opens:



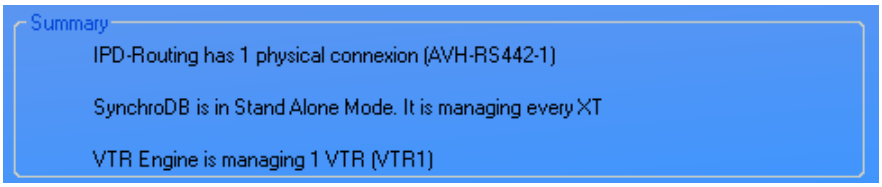
The SynchroDB is a service running on every IP Director workstation. All SynchroDB services on the network will manage database synchronization between the IP Director SQL database and the XNet database. These SynchroDB services will manage all XT servers, XFile and XBrowse devices present on the XNet network.

Note: Only one SynchroDB service should manage one XT server, XBrowse or XFile at a time on the network.
Otherwise, a conflict is detected by the Remote Installer. In this case the colour of involved machines turns red.
It is important to specify which XT servers, XStore and XFile will be managed by which SynchroDB.

Stand Alone:

If you check this option, the local SynchroDB will manage all the XT servers and XFile systems on the XNet network. In this mode, be sure to check 'None' for all other SynchroDB running on other IP Director workstations on the network. You will typically select this option when there is only one IP Director in use.

The Summary part of the Remote Installer changed then like this:


Summary
IPD-Routing has 1 physical connexion (AVH-RS442-1)
SynchroDB is in Stand Alone Mode. It is managing every XT
VTR Engine is managing 1 VTR (VTR1)

Restricted Stand-alone:

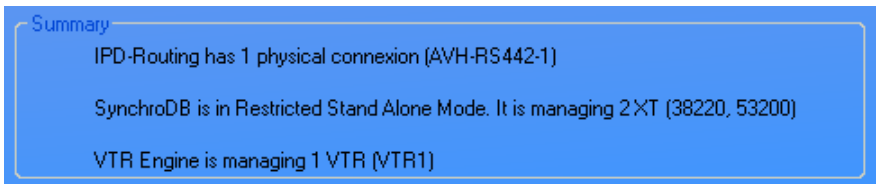
This option allows you to spread the management of XT servers between many IP Director Workstations.

Specify the serial numbers of the servers the SynchroDB will manage on the XNet network. Enter the serial number of the server in the 'Serial Number' field and click on the 'Add' button. The XT server is added to the list.

Note: If the XNet network is already running, a convenient place to gather all the XT serial numbers is from the [SHIFT]+[F8] screen on any of the Multicam user VGA stations.

Be sure that any one XT server is only managed once on the IP Director network's SynchroDB services.

The Summary part of the Remote Installer is changed as follows:

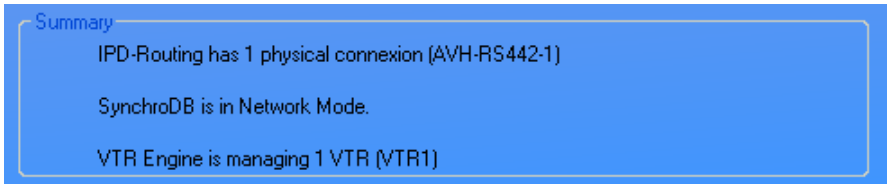

Summary
IPD-Routing has 1 physical connexion (AVH-RS442-1)
SynchroDB is in Restricted Stand Alone Mode. It is managing 2 XT (38220, 53200)
VTR Engine is managing 1 VTR (VTR1)

In the example, the 38220 number corresponds to the XT Serial Number and the 53200 number correspond to the Xfile.

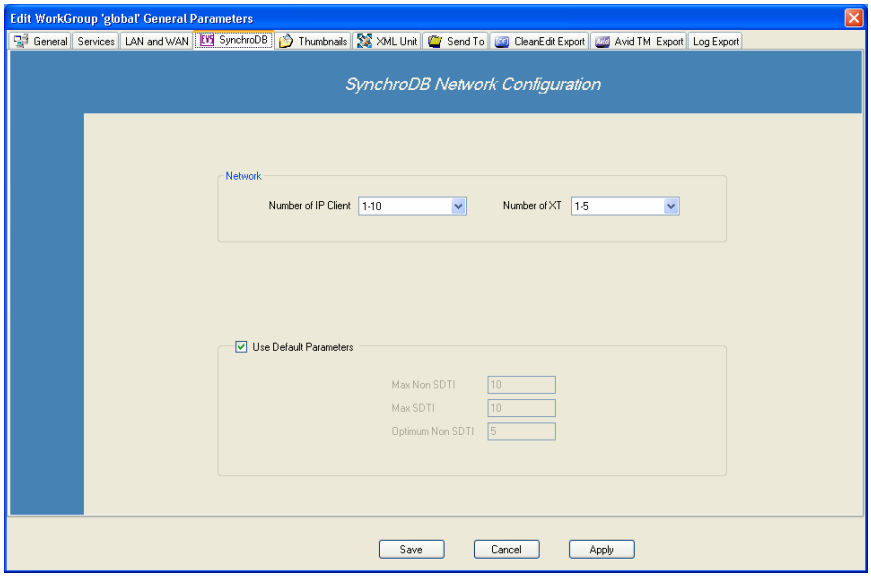
Network:

Use this option to automatically assume the management of XT servers amongst different SynchroDB mainly for emergency purposes.
For example if a SynchroDB of one workstations stops, another SynchroDB can take the duties and manage the XTs which were originally managed by the SynchroDB that has stopped.

The Summary part of the Remote Installer changed then like this:



The default settings of the network mode can be changed manually using the SynchroDB Tab of the main Remote Installer Configure tool.



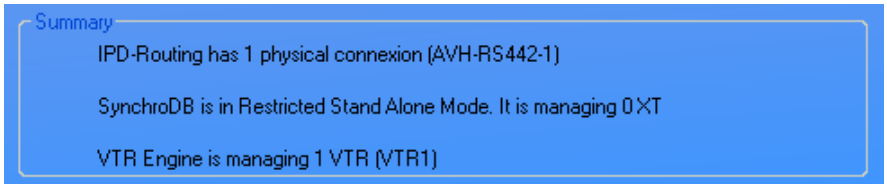
In the case of a complete SynchroDB management using the network mode, you need to set the basics parameters comparing to your setup size.

Please refer to the SynchroDB Configuration (Load Balancing) in the Parameters Configuration chapter.

It is strongly recommended to keep the parameters by default.

<u>None:</u>

Check this option to indicate that no XT servers will be managed by the local SynchroDB of this IP Director workstation. After reviewing the SynchroDB configuration, you may notice that a selection of 'None' will appear as a Restricted Stand-Alone mode with an empty list. This is identical to selecting None.

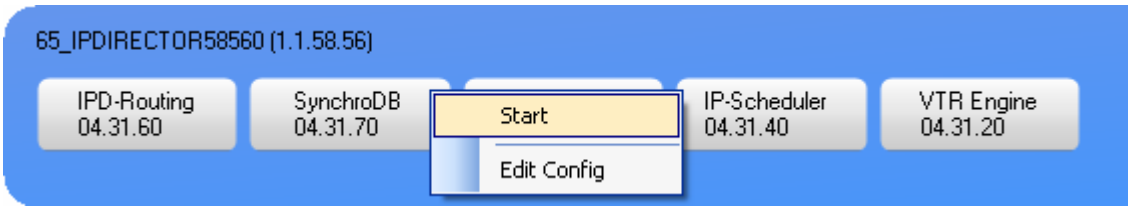

Summary
IPD-Routing has 1 physical connexion (AVH-RS442-1)
SynchroDB is in Restricted Stand Alone Mode. It is managing 0 XT
VTR Engine is managing 1 VTR (VTR1)

Note: If one XT server is not managed by any SynchroDB on the IP Director workstations, it will not appear in the channel explorer of the IP Director application.

Note: All parameters are local to the IP Director workstation and must be set independently on all IP Director workstations.

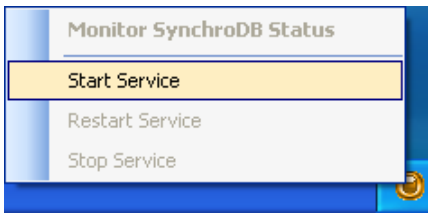
START SYNCHRODB

Once SynchroDB is configured, it can be started by right clicking the SynchroDB box and selecting Start.

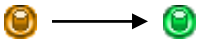


The SynchroDB box turns green: the SynchroDB has been successfully started. The IPD-Routing starts automatically with the SynchroDB.

The SynchroDB can be also started from the icon in the Windows Taskbar. Right click the icon and select Start.



The orange icon becomes green in the Windows XP System Tray of the workstation where the service is started:

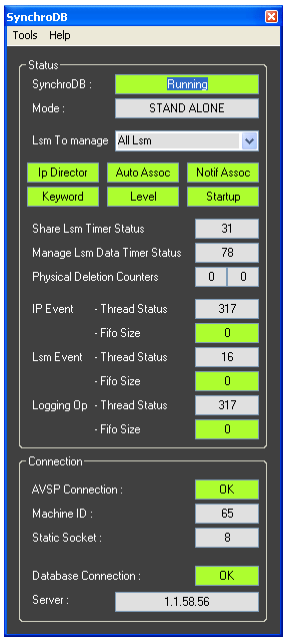


Note: In version 4, the SynchroDB can't be started from the START Menu. SynchroDB is a Windows services loaded at the Windows start up.

Note: The SynchroDB starts automatically when IPDirector is started from the Remote installer or by double-clicking on the desktop icon.

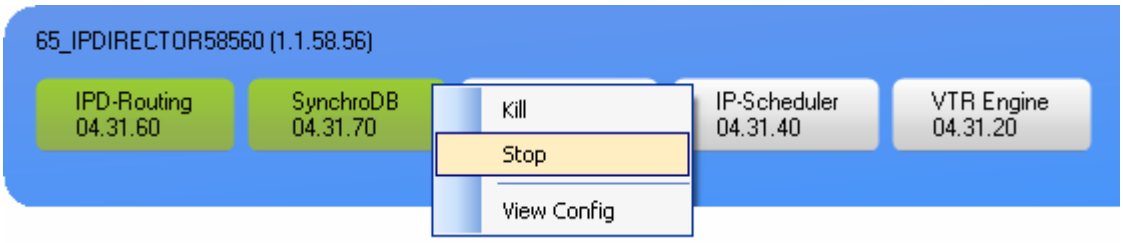
Right click the SynchroDB icon (Monitor SynchroDB Status) opens the windows. This window automatically closes itself after a few minutes.

The IPDirector SynchroDB Status window:



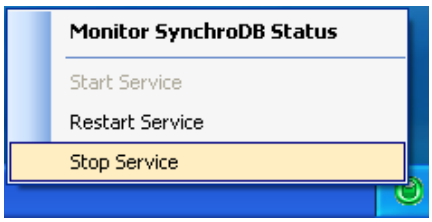
STOP SYNCHRODB

To stop the SynchroDB, the SynchroDB zone must be green. Then, right click on it and select Stop or Kill.



Stop will close properly the SynchroDB service and Kill will stop the SynchroDB Process.

View Config previews the SynchroDB Configuration window while service is running. Parameters edition is disabled.

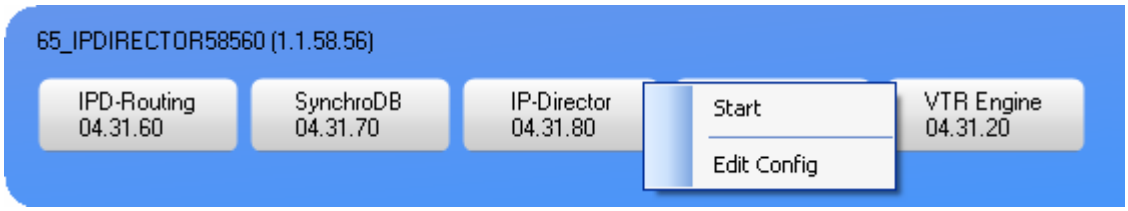


Note: You can also stop or restart the SynchroDB service by right clicking the toolbar icon and selecting “Stop Service” or “Restart Service”.

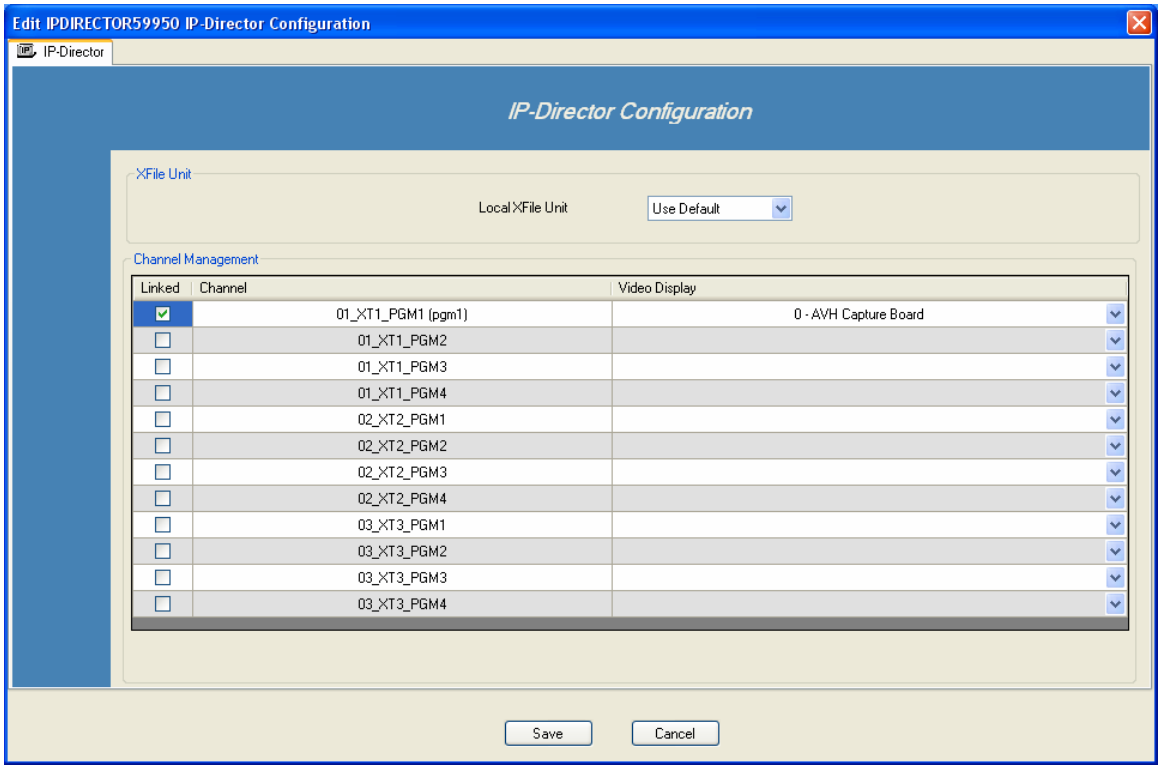
IP-Director Configuration

CONFIGURE IP-DIRECTOR

After having configured IPD-Routing and SynchroDB, right click the IP-Director button and select Edit Config from the contextual menu.



The IP-Director Configuration window opens:



Local XFile Unit:

An IP Director can be linked to one specific XML unit, which means that all XML files (corresponding to backup, export to Clean Edit or AVID jobs) will be sent to that specific unit.

Select the unit from the drop down list. If 'Use Default' is selected, the XML unit defined as the default one will be used. Refer to XML unit configuration paragraph for more information.

Default value: Use Default.

Channel Management:

The area allows you to link a PGM channel of one specific XT to one Video Display (Video Board). To define a link between a PGM and a video display:

- Check the box in the 'Linked' column
- Select which video display device it is linked to from the drop down list in the video display column.

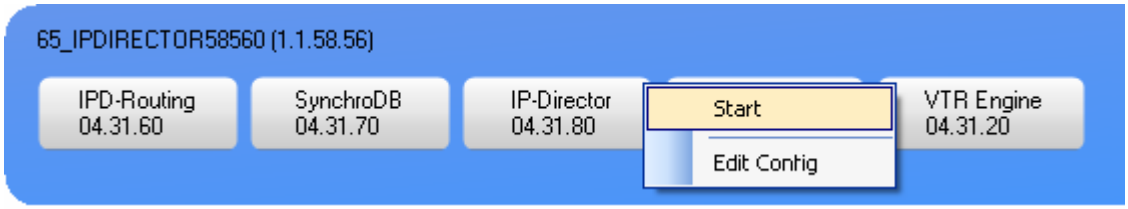
The linked box can be checked without being linked to a Video Display. For example, this is used when an external monitor is connected to your workstation.

Note: All these parameters are local to the IP Director workstation and must be set independently on all IP Director workstations.

Note: In version 4, the linked PGM channel with a defined video display device opens automatically a video display inside the control panel of this channel.

START IP-DIRECTOR

Once the IP-Director is configured, you can start it by right clicking the IP-Director button and selecting Start.



The IP-Director box turns green: the IP-Director has been successfully started. The IPD-Routing and the SynchroDB starts automatically with the IP-Director.

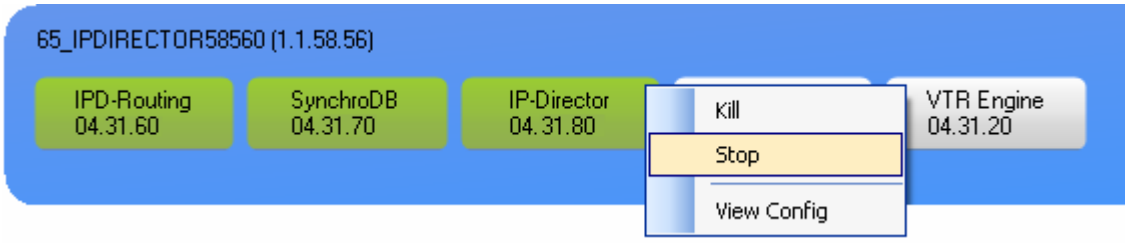
Note: You can also start the Ip-Director application by this way: Start Menu > Programs > EVS Broadcast Equipment > IP-Director > IP-Director. Or you just by double clicking the IP-Director Shortcut on your Desktop.

The IP-Director splash screen is displayed:

This splash screen automatically closes after libraries are loaded and main IP-Director interface opens.

STOP IP-DIRECTOR

To stop the IP-Director, the IP-Director button must be green. Then, right click on it and select Stop or Kill.



Stop will close properly the IP-Director application and Kill will stop the IP-Director Process.

View Config previews the IP-Director Configuration window while application is running. Parameters edition is disabled.

Note: You can also stop the IP-Director application by Quitting the IP-Director application.

IP-Scheduler

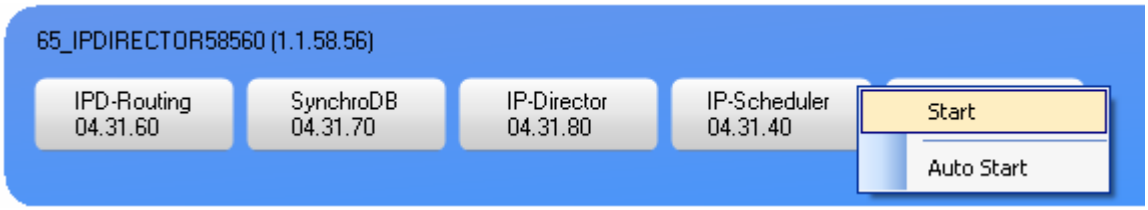
After having configured IPD-Routing, SynchroDB and before starting IP-Director, right click the IP-Scheduler button and select Auto Start to automatically start IP-Scheduler with the IP-Director application.

Only one IP-Scheduler manages jobs in a workgroup (the IP-Scheduler running as the MASTER). Starting more than one IP-Scheduler is allowed and brings you Load Balancing functionality.

Refer to the IP-Scheduler chapter for advanced configuration and jobs managing.

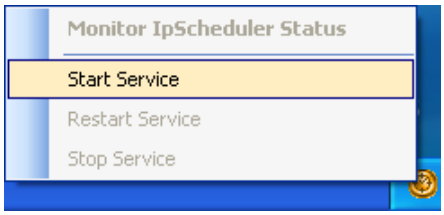
START IP-SCHEDULER

To start the IP-Scheduler, right click the IP-Scheduler box and select Start.

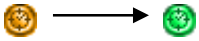


The IP-Scheduler box turns green: the IP-Scheduler has been successfully started. The IPD-Routing and the SynchroDB start automatically with the IP-Scheduler.

The IP-Scheduler can be also started from the icon in the Windows Taskbar. Right click the icon and select Start.



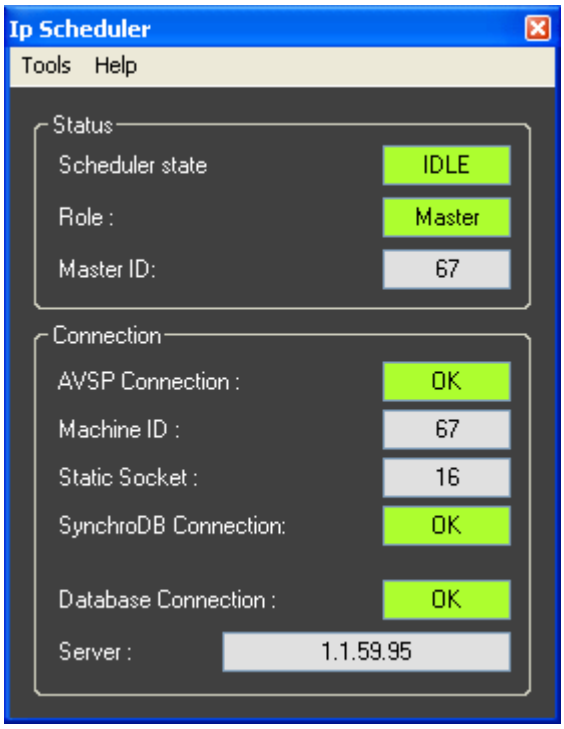
The orange icon becomes green in the Windows XP System Tray of the workstation where the service is started:



Note: In version 4, the IP-Scheduler can't be started from the START Menu. IP-Scheduler is a Windows services loaded at the Windows start up.

Note: The IP-Scheduler starts automatically (with option Auto Start) when IPDirector is started from the Remote installer or by double-clicking on the desktop icon.

The IPDirector Scheduler Status window:



Right click the IP Scheduler icon (Monitor IP Scheduler Status) opens the windows. This window automatically closes itself after a few minutes.

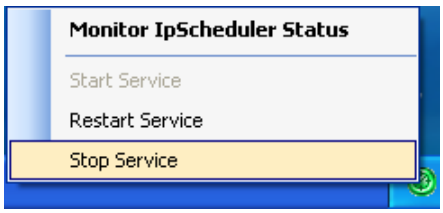
Note: This IP-Scheduler with the lowest routing number takes the "Master" role. Other IP-Scheduler started in the workgroup display "Waiting" (Only for Load Balancing function for the IP-Scheduler).

STOP IP-SCHEDULER

To stop the IP-Scheduler service, the IP-Scheduler zone must be green. Then, right click on it and select Stop or Kill.

Stop will close properly the IP-Scheduler service and Kill will stop the IP-Scheduler Process.

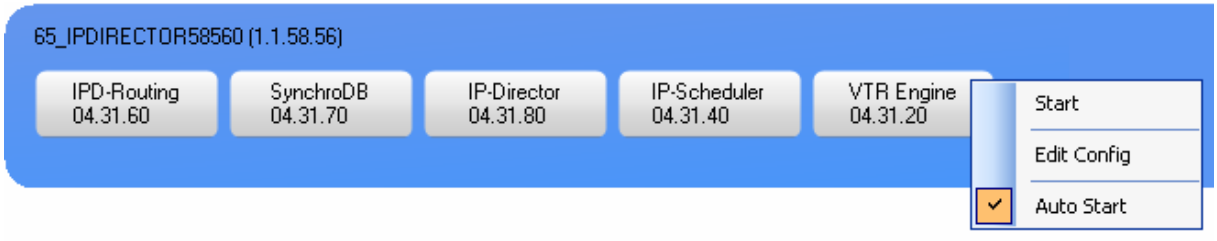
Note: You can also stop or restart the IPD Routing service by right clicking the toolbar icon and selecting “Stop Service” or “Restart Service”.



VTR Engine

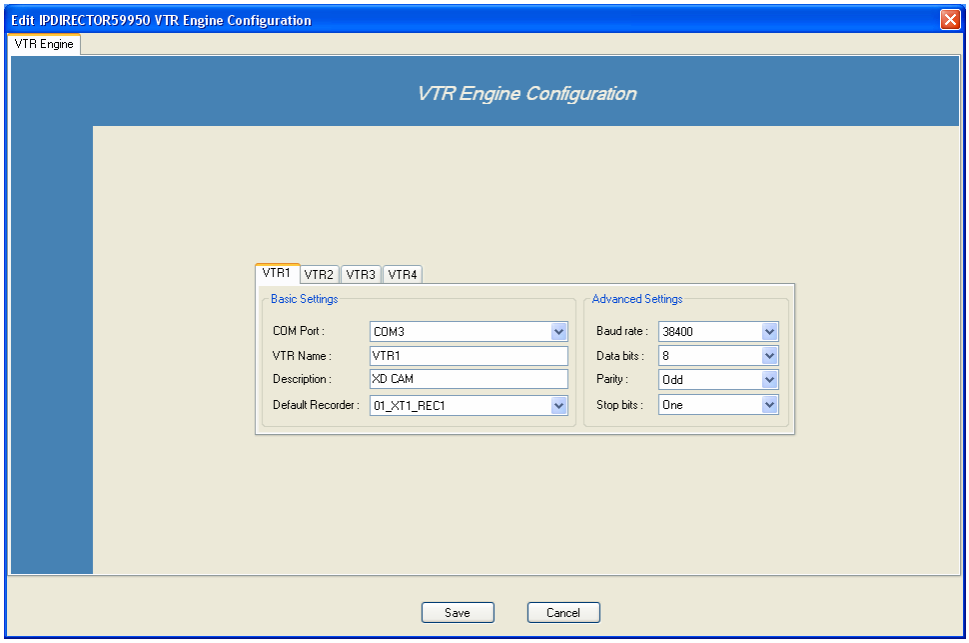
VTR Engine allows you to manage VTR (maximum 4 by workstation) with the unused RS422 connections of the IP-Director workstation.

After having configured IPD-Routing, SynchroDB, and before starting IP-Director, right click the VTR Engine button and select Auto Start to automatically start VTR Engine with the IP-Director application.



Right click the VTR Engine button and select Edit Config from the contextual menu.

The VTR Engine Configuration window opens:



Basic Settings:

Define the RS422 port connected to VTR (COM1 to COM6 or AVH-RS422-1 to AVH-RS422-4).

Note: If all RS422 ports are assigned to the Routing service, the VTR Engine will not be able to use the same port to communicate with a VTR. The RS422 port that is in conflict is NOT automatically removed from the VTR Engine COM Port drop down menu.

Enter a name for the VTR. The VTR name is used in the VTR Contol Panel in the IP-Director interface.

Enter a description for your own facility.

Select the XT Default Recorder connected to the VTR. The VITC of this recorder is taken for ingests.

Advanced Settings:

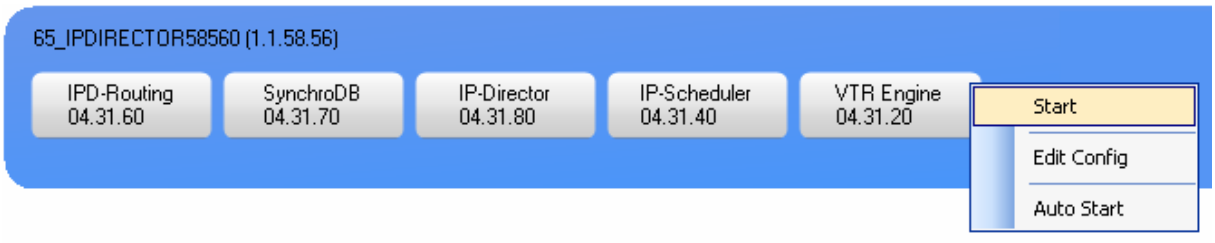
Specify the Baud rate, Data bits, Parity and Stop bits of the serial protocol used by the VTR. Please refer the VTR manual to get information.

Note: An IP-Director workstation without connection to a XT manages up to 4 VTR depending on the RS422 ports installed.

Note: All parameters are local to the IP Director workstation and must be set independently on all IP Director workstations.

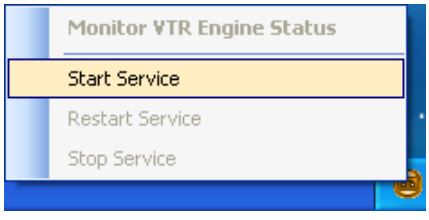
START VTR ENGINE

To start the VTR Engine, right click the VTR Engine box and select Start.

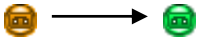


The VTR Engine box turns green: the VTR Engine has been successfully started. The IPD-Routing and the SynchroDB start automatically with the VTR Engine.

The VTR Engine can be also started from the icon in the Windows Taskbar. Right click the icon and select Start.



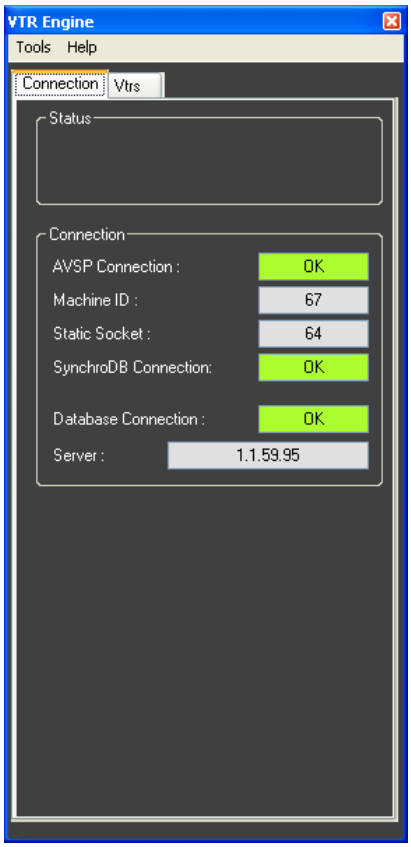
The orange icon becomes green in the Windows XP System Tray of the workstation where the service is started:



Note: In version 4, the VTR Engine can't be started from the START Menu. VTR Engine is a Windows services loaded at the Windows start up.

Note: If option Auto Start is checked, the VTR Engine starts automatically when IPDirector is started from the Remote installer or by double-clicking on the desktop icon.

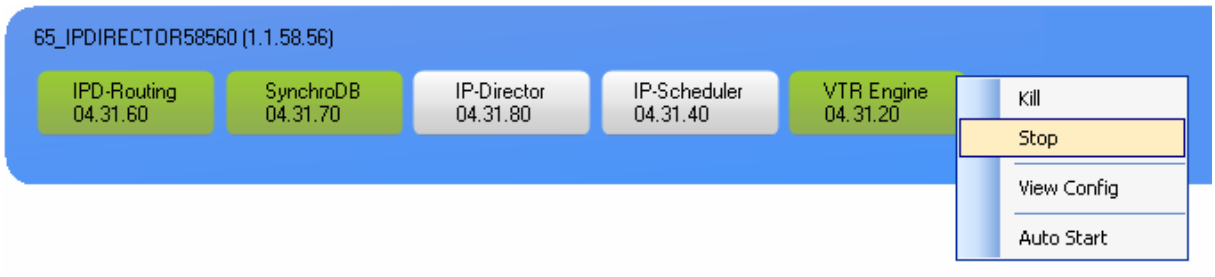
The VTR Engine Status window:



Right click the VTR Engine icon (Monitor VTR Engine status) opens the windows. This window automatically closes itself after a few minutes.

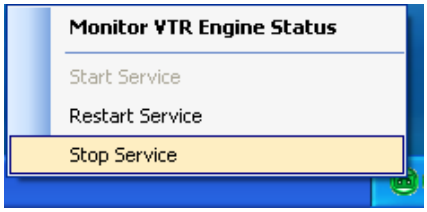
STOP VTR ENGINE

To stop the VTR Engine service, the VTR Engine zone must be green. Then, right click on it and select Stop or Kill.



Stop will close properly the VTR Engine service and Kill will stop the VTR Engine Process.

Note: You can also stop or restart the VTR Engine service by right clicking the toolbar icon and selecting "Stop Service" or "Restart Service".



USER MANAGER

Definitions

USER

A user is an individual who will use the system. The user is characterized by a login and a password and can have access to the system by entering a login and password.

GROUPS AND MEMBERSHIP

A user can belong to a group (or several groups) of users. (If not, he/she is a 'stand alone user'). Defining groups of users will, for example, allow restrictions of visibility to some elements created by other members of the same group. Group membership is mainly used when many different broadcast partners are sharing content on the same IP Director network.

ELEMENTS

In the IP Director, the main elements are clips, bins, play-list, log sheets and logs.

Ownership of elements: The owner of an element is the user who has created it. The ownership property will allow to define which element can be deleted and by whom. You can delete the clips created by the members of your groups but not clips created by other groups.

RESOURCES

The resources of the IP Director are the recorder channels and the player channels of the XT servers the IP Director is connected to.

VISIBILITY

The visibility of an element or a resource determines what the user can see in the user's interface. In other words, which element or resource a user is allowed to see.

USER PROFILE

A user profile is a set of characteristics which can be automatically applied when a new user is created. It is a tool to help the administrator to define similar user accounts more quickly with less risk of errors.

A user account is not linked to the profile(s) which was used to define its rights. It means that if a profile is modified, the user characteristics created based on this profile will not be modified.

Start the User Manager application

The User Manager allows you to define all users who will access the IP Director systems and the group(s) they belong to. Each user can have different rights on the system. For example, some of them will be allowed to delete clips, some others not.

Note: It should be launched after the installation of the complete IP Director set up, and after the database parameters (server location, etc.) have been defined in the console management application and after the Routing and SynchroDB services are started.

To launch the IP-Director User Manager,

Double click the icon on your desktop:

Or select START from the windows XP tool bar then Programs → EVS Broadcast Equipment → IP Director → User Manager

The login window is opened.

The User Manager is only available to users who have administrator rights on the system.

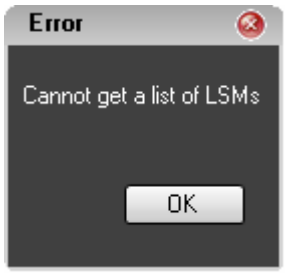
Enter the administrator login and password. Then click OK.

Note: If you log on for the first time on the system, you must use the following login and password (case sensitive):

Login: administrator
Password: evs

Note: If no valid database has been restored, configure the Remote Installer to reach, clean or restore a valid database.

Note: If there are no managed XT servers on the network, an error window opens. This is mandatory to be able to configure the resources rights and visibility of users.



Click OK.

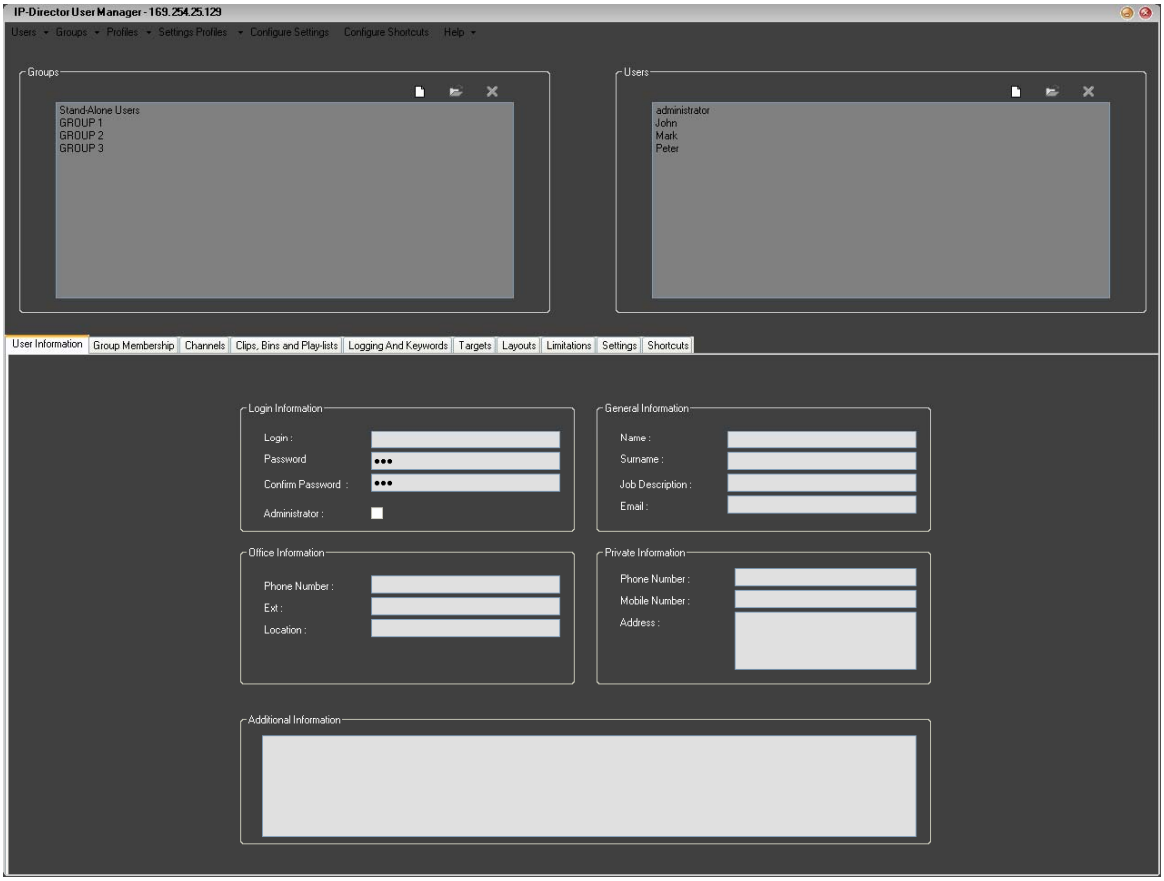
The user manager main window is opened (see below).

NOTE TO THE ADMINISTRATOR

A generic administrator user has been created in the database to allow the administrator to log on the system the first time the user uses the system.

The login and password of this administrator user are provided in this manual so EVS strongly recommends that the administrator deletes this generic user as soon as the user has created his/her own administrator user with a different login and password.

The main window

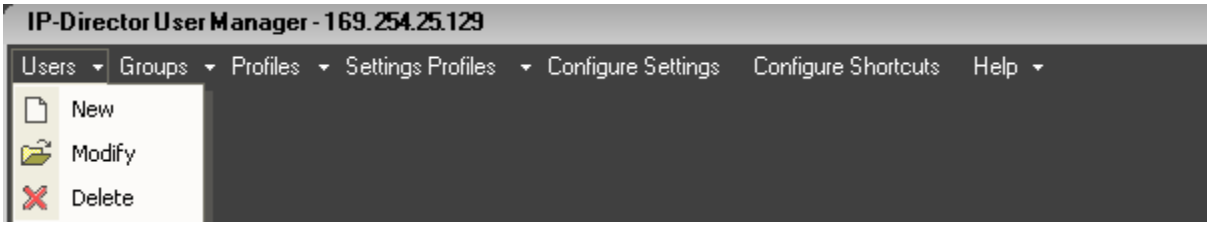


The main window has 3 different parts:

- The menus
- The groups and users created on the system
- The characteristics (rights) of the selected user.

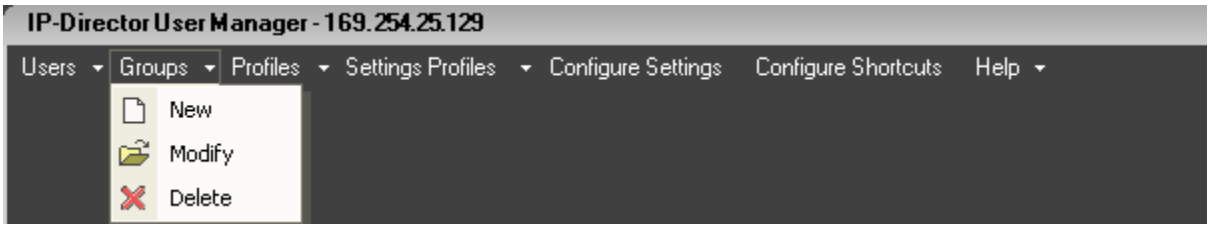
THE MENUS

The 'Users' menu



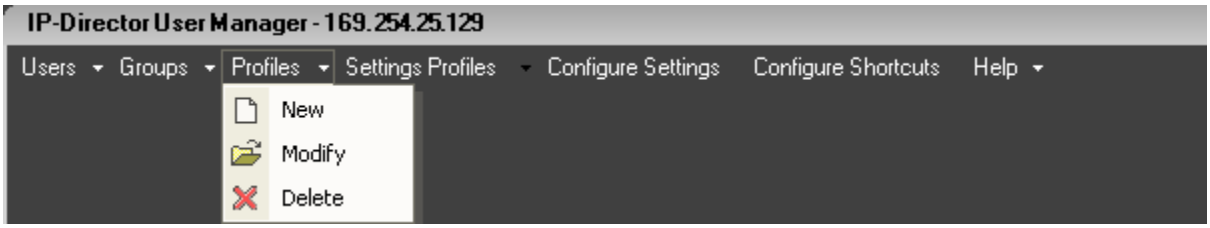
New: create a new user
Modify: modify user's rights
Delete: delete a user

The ‘Groups’ menu



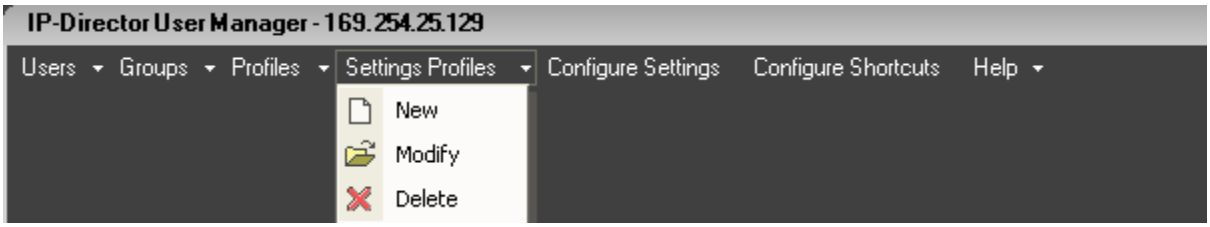
New: create a new group
Modify: modify (rename) a group
Delete: delete a group

The ‘Profiles’ Menu



New: create a new user profile
Modify: modify a user profile
Delete: delete a user profile

The ‘Settings Profiles’ Menu



New: create a new settings profile
Modify: modify a settings profile
Delete: delete a settings profile

The ‘Configure Settings’ option

Open the “Define Settings Types” Windows.
Please refer to the following Configure Settings/Shortcuts chapter.

The ‘Configure Shortcuts’ option

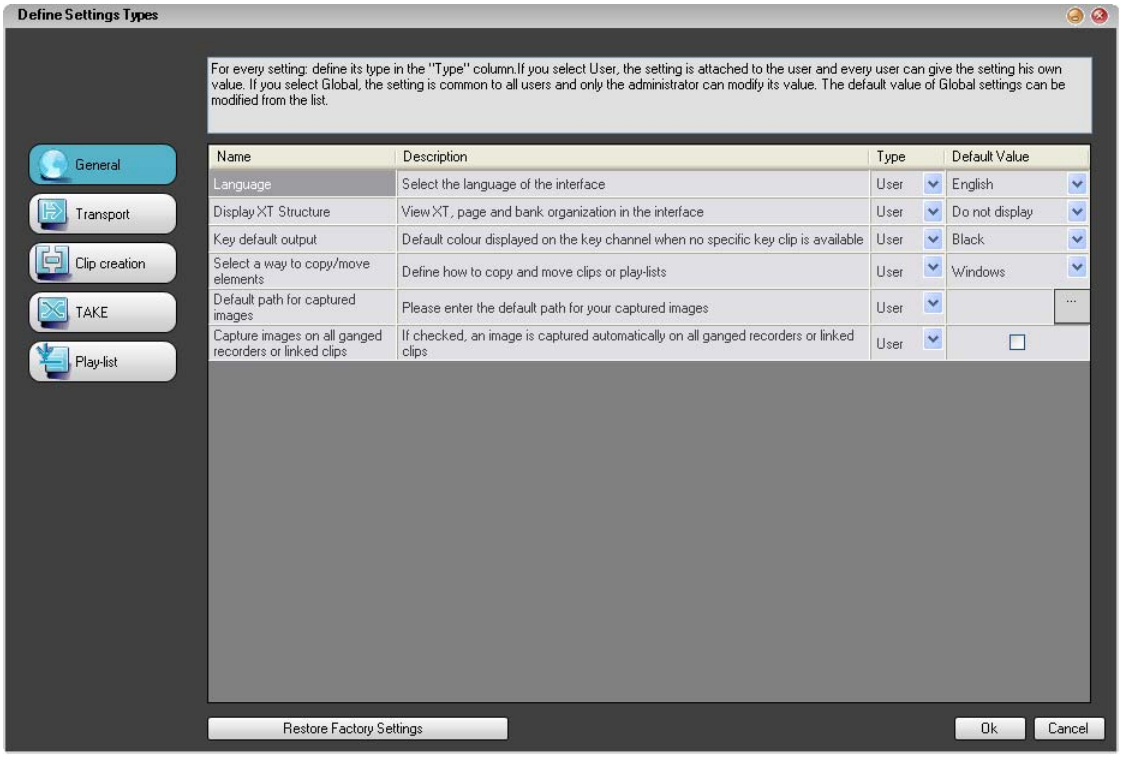
Open the “Configure Shortcuts” Windows.
Please refer to the following Configure Settings/Shortcuts chapter.

CONFIGURE GLOBAL SETTINGS AND SHORTCUTS

The 'Define Settings Types' window

The administrator can configure default values of all settings. This should be done prior to create users.

Click on Configure Settings in the User Manager main menu to open this window:


Define Settings Types
For every setting: define its type in the "Type" column.If you select User, the setting is attached to the user and every user can give the setting his own value. If you select Global, the setting is common to all users and only the administrator can modify its value. The default value of Global settings can be modified from the list.
General
Transport
Clip creation
TAKE
Play-list
Name
Description
Type
Default Value
Language
Select the language of the interface
User
English
Display XT Structure
View XT, page and bank organization in the interface
User
Do not display
Key default output
Default colour displayed on the key channel when no specific key clip is available
User
Black
Select a way to copy/move elements
Define how to copy and move clips or play-lists
User
Windows
Default path for captured images
Please enter the default path for your captured images
User
Capture images on all ganged recorders or linked clips
If checked, an image is captured automatically on all ganged recorders or linked clips
User
Restore Factory Settings
Ok
Cancel

Different settings categories are available:

General: Language, Display XT Structure, Key default output, Copy/Move method, Default path for capture and capture on ganged channels.

Transport: Settings related to playback transport function: Play VAR speed, Fast Forward speed and Fast Rewind speed, Auto play on load.

Clip creation: Settings related to clip creation: Guard bands, Default clip duration, Open save clip windows, Create clips on all synchronized recorders, My clips only in the "Last clips created list", Default XT for partial clip restore, Premark and Postmark for automatic clip creation.

Take: Settings related to the 'Take' function: Default video effect type and duration, Default audio effect type and duration.

Play-list: More than 25 settings related to the play-list management, the play-list editor, including colors and audio/video effect properties.

Two different types of settings exist:

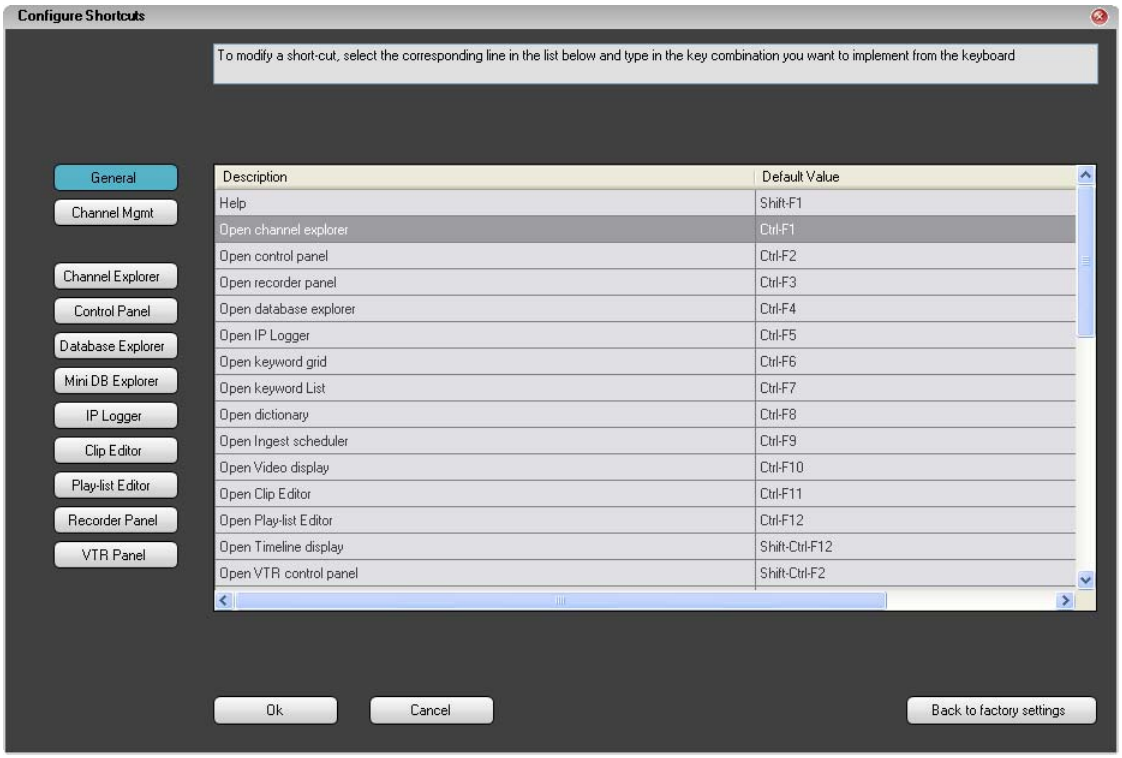
- User: the setting value can be changed by any user according to his preference.
- Global: the setting value is common to all user and can only be changed by the administrator.

For every setting, the administrator must specify the type of setting (User or Global) and its default value.

The 'Configure Shortcuts' window

The administrator can configure default values of all settings. This should be done prior to create users.

Click on Configure Shortcuts in the User Manager main menu to open this window:



Each function in the IP-Director interface has its own shortcut. Consult or edit the default shortcuts between functions and keys.

Note: Push the "Back to factory settings" to restore default shortcuts values defined by EVS.

Note: To modify a shortcut, select the line in the list and hit the new key combination to change it.

GROUPS AND USERS

In the main window, groups are displayed in the group list (on the left) and users belonging to those groups are displayed in the user list (on the right).

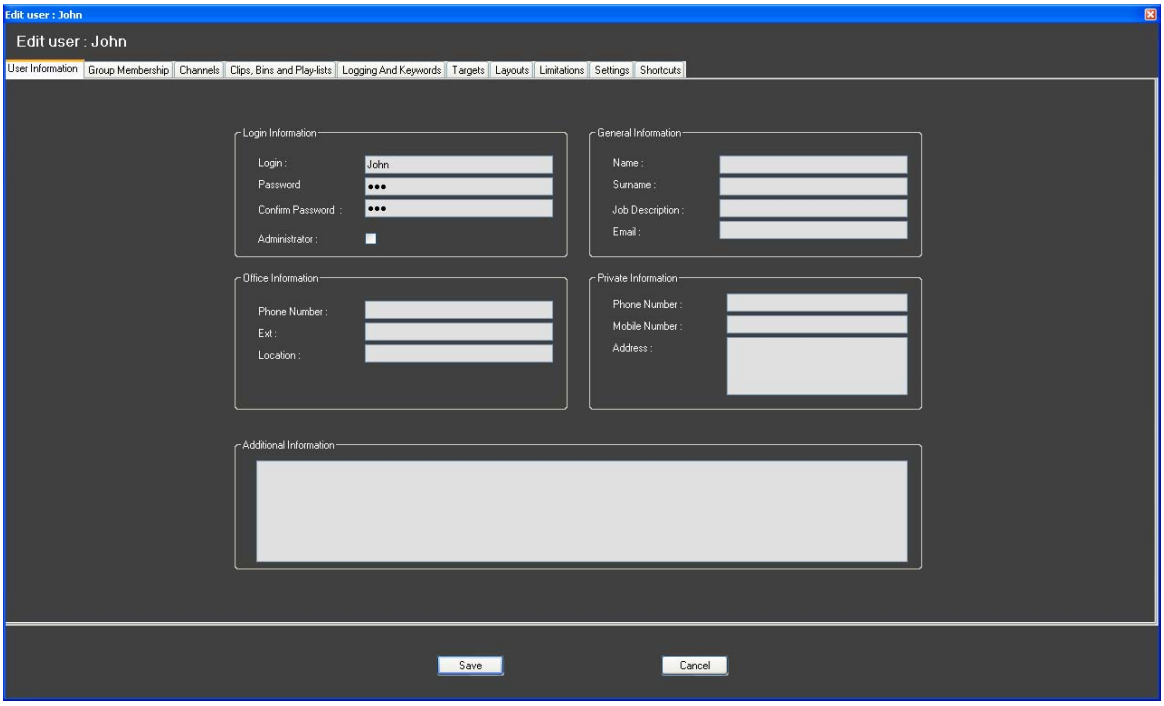
When a group is selected in the group list, the users belonging to this group are displayed in the user list

The functions ‘New’, ‘Modify’, ‘Delete’ are accessible from the main window for users and groups.

THE DIFFERENT CHARACTERISTICS OF A USER

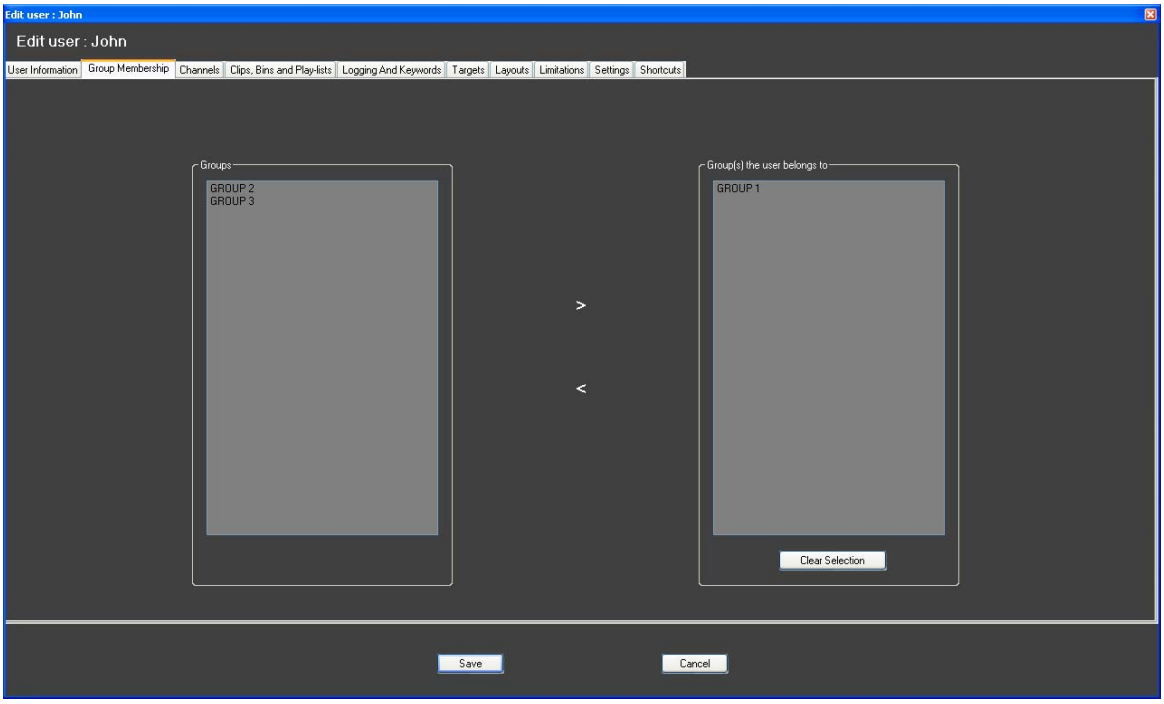
When a user is selected in the user list, his characteristics are displayed as read-only in the characteristics zone below.

The User Information tab



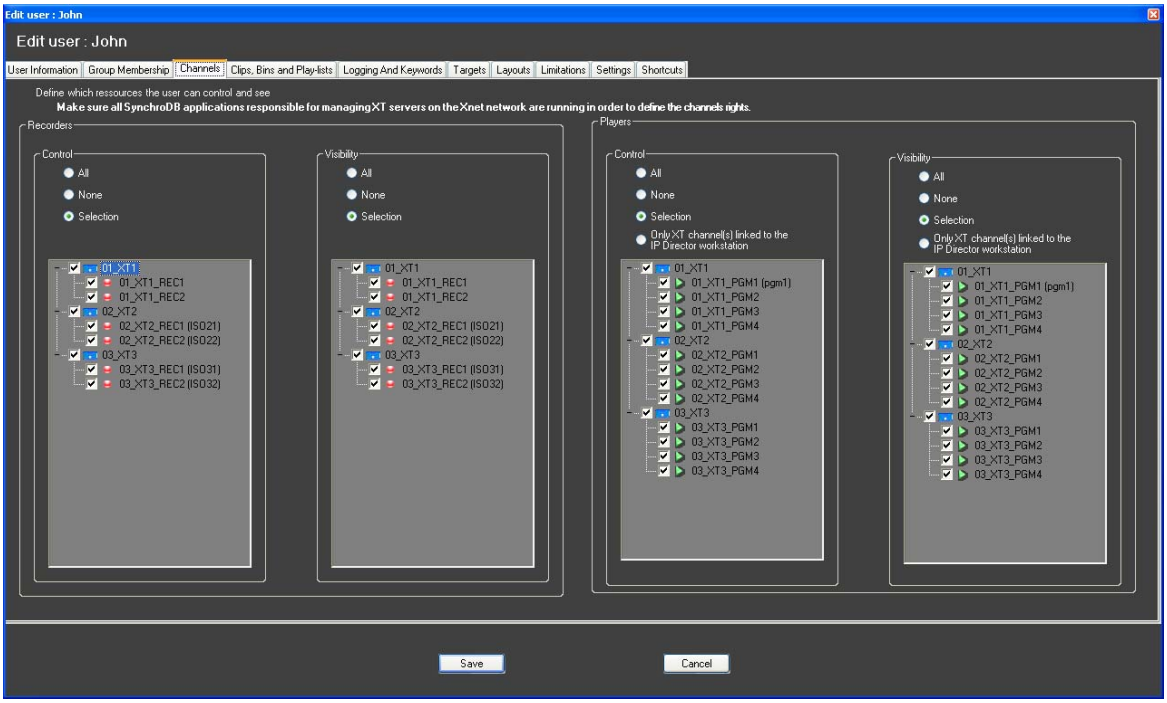
This tab displays all necessary information of the selected user.

The Group Membership tab



This tab gives information on the group(s) the user belongs to.

The Channels tab



This tab gives information on which channel(s) the user can see and control. The control rights will always be lower or equal to the visibility rights.

All: the user can see or control all channels on the XNet network.

None: the user cannot see or control any channels on the XNet network.

Selection: the user can see or control some channels on the XNet network. The channels he can see or control are checked in the list.

Note: If all XTs and thus all channels present on the XNet network are not displayed in the list, it simply means that all SynchroDB applications responsible of managing the missing XTs are not up and running or the XT servers are stopped.

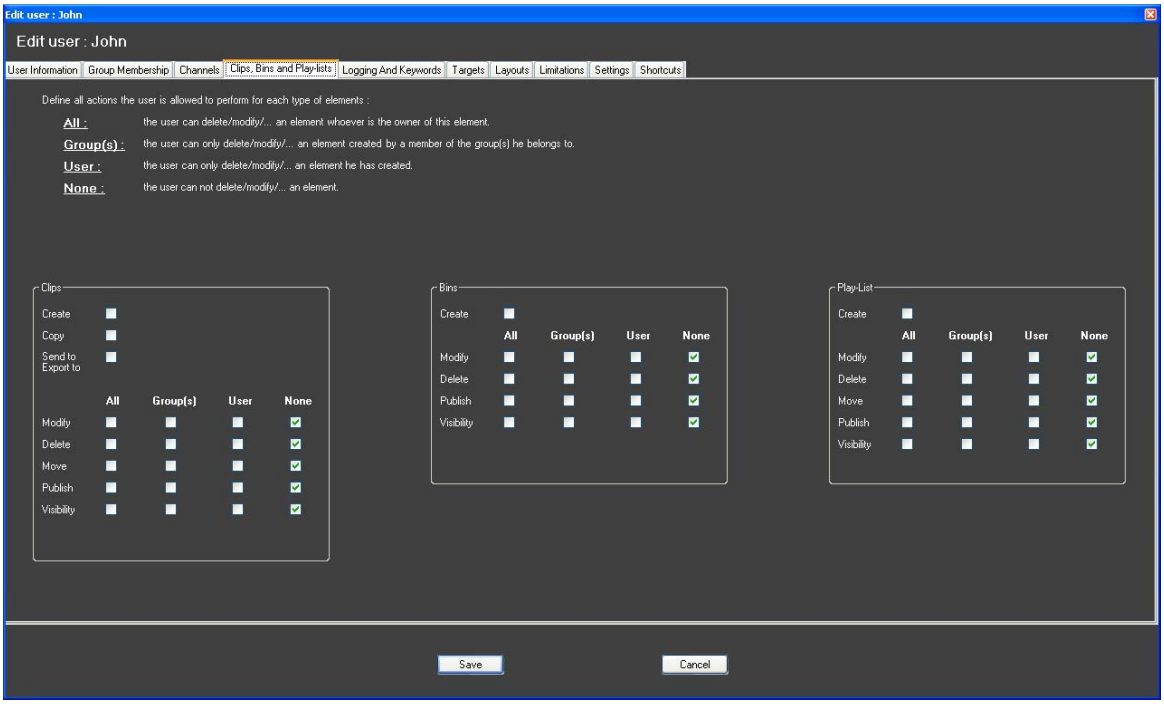
Only XT channels linked to the IPDirector Workstation : If this option is checked, the user will only see in his GUI, the playback channels which are physically linked to his (her) IP Director workstation and specified in the IP-Director Configuration in the Remote Installer.

ELEMENTS

The elements assignments are divided in several single Tabs as follows:

- Clips, Bins and Playlists
- Logging and Keywords
- Targets

Clip, Bins and Playlists Tab



The Clips, Bins and Playlists Tab gives information on the rights of the user in terms of visibility and control of some of the elements: clips, bins, play-lists.

Create, Copy, Send to and Export to boxes:
If these boxes are checked, the user has the right to Create, Copy, Import, Send or Export the corresponding element on the system.
For example, if the Create box is checked in the 'Clips' zone, it means the user has the right to create clips on the system.

For other functions like Modify, Delete, Move, Publish and Visibility the rights of the user depends on where the box is checked on each line.

All: the user can Modify, Delete, etc… all corresponding elements on the system.

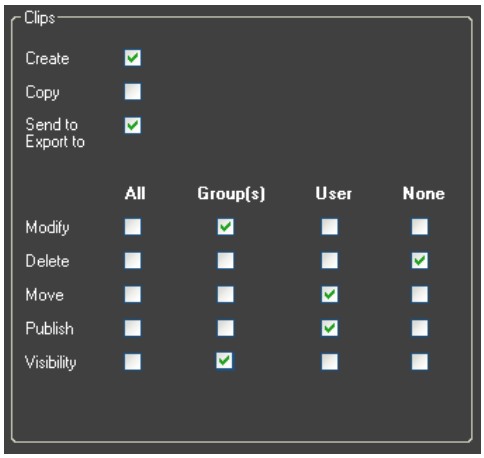
Group(s): the user can Modify, Delete, etc… all corresponding elements created by all users of the group(s) the user belongs to.

User: the user can only Modify, Delete, etc… all corresponding elements the user created.

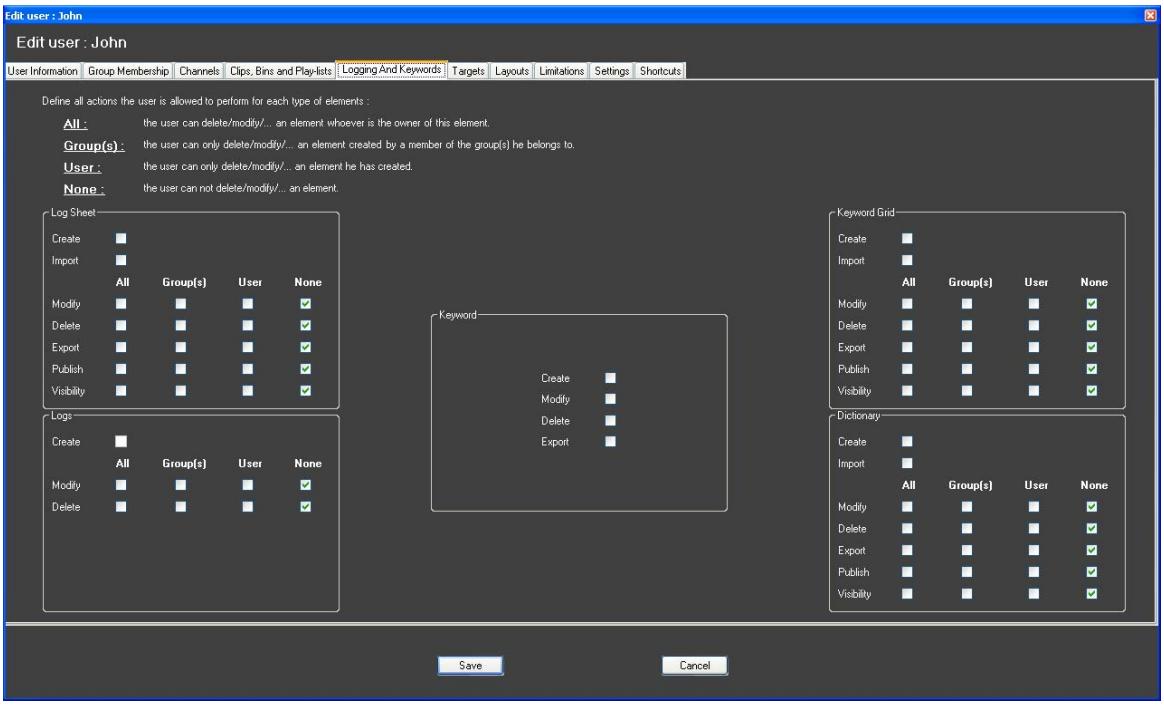
None: the user cannot Modify, Delete, etc… any elements, even the elements the user has created.

In the example below:

- The user can create clips
- The user cannot copy clips
- The user can Send/Export clips that the user can see
- The user can modify clips created by all users member of The group(s) the user belongs to
- The user cannot delete any clips
- The user can move the clips the user has created
- The user can publish to other groups the clips the user has created
- The user can see all clips created by the users, members of the group(s) the user belongs to, but not clips created by other users, members in others groups.



Logging and Keywords Tab



The Logging and Keywords Tab is used to define which kind of rights the user can perform on logs, logsheets and keywords.

Log Sheet: The authority to manage the complete Log Sheet Create, Modify, Delete, etc…

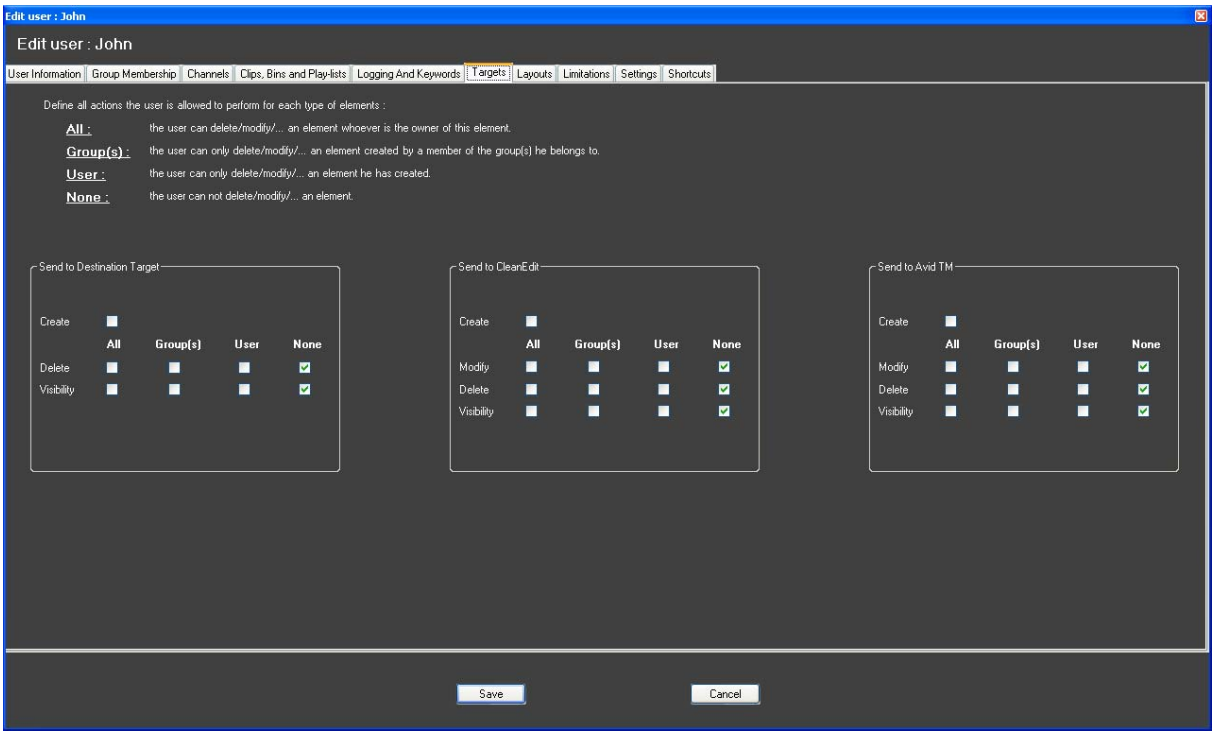
Logs: The authority to manage individual log entries
Create, Modify or Delete

Keyword: The authority to manage individual Keywords in the database List
Creation, Delete, Modify, etc…

Keyword Grid: The authority to manage complete Keyword Grids in the database
Create, Import, Modify, Delete, Export, etc…

Dictionary: The authority to manage complete Dictionaries in the database
Create, Import, Modify, Delete, Export, etc…

Targets Tab



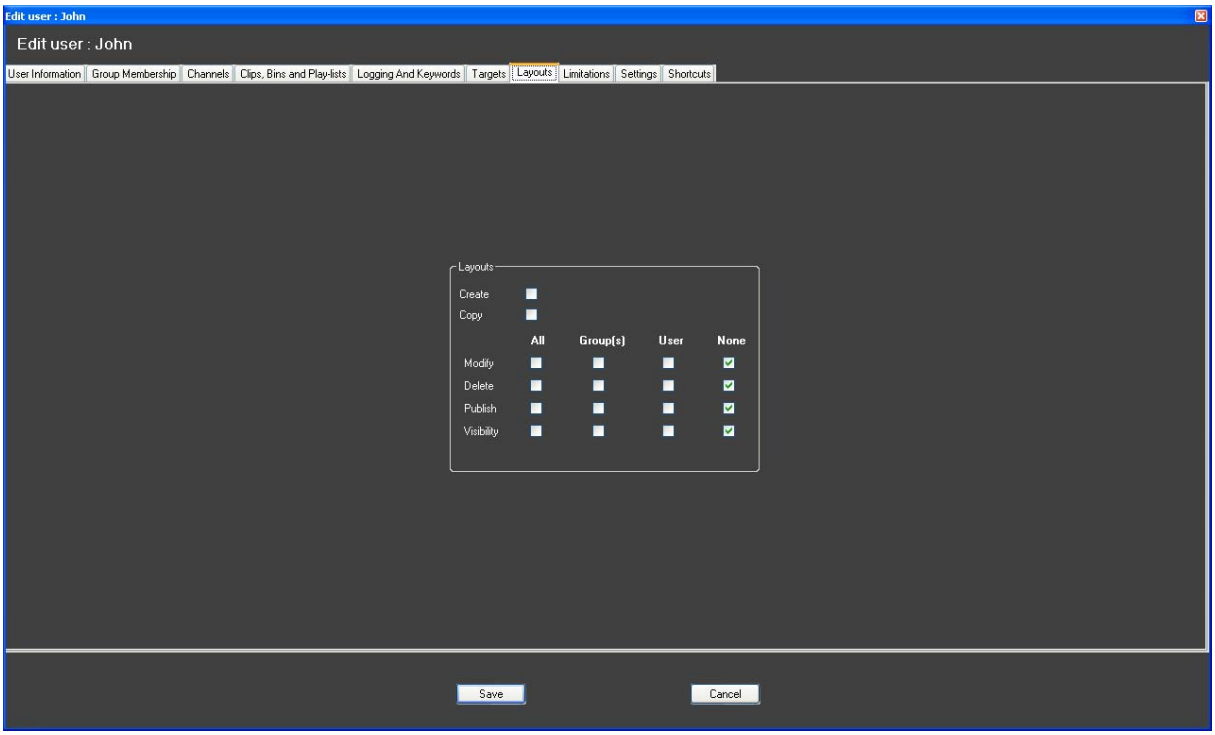
The Target Tab is used to define which kind of rights the user can perform on targets.

Send To Destination Target: The authority to send clips to a Send To Target. This uses the XFile XML Integration.
Create, Delete or Visibility

Send To XStore: The authority to manage clip transfers to a XStore CleanEdit System.
Create, Modify, Delete, or Visibility

Send To AVID TM: The authority to manage clip transfers to a AVID Transfer Manager System.
Create, Modify, Delete, or Visibility

Layouts Tab



The Layouts Tab is used to define which kind of rights a user has on layouts.

Create, Copy boxes:
If these boxes are checked, the user has the right to Create or Copy the corresponding element on the system.

For other functions like Modify, Delete, Move, Publish and Visibility the rights of the user depends on where the box is checked on each line.

All: the user can Modify, Delete, etc… all corresponding elements on the system.

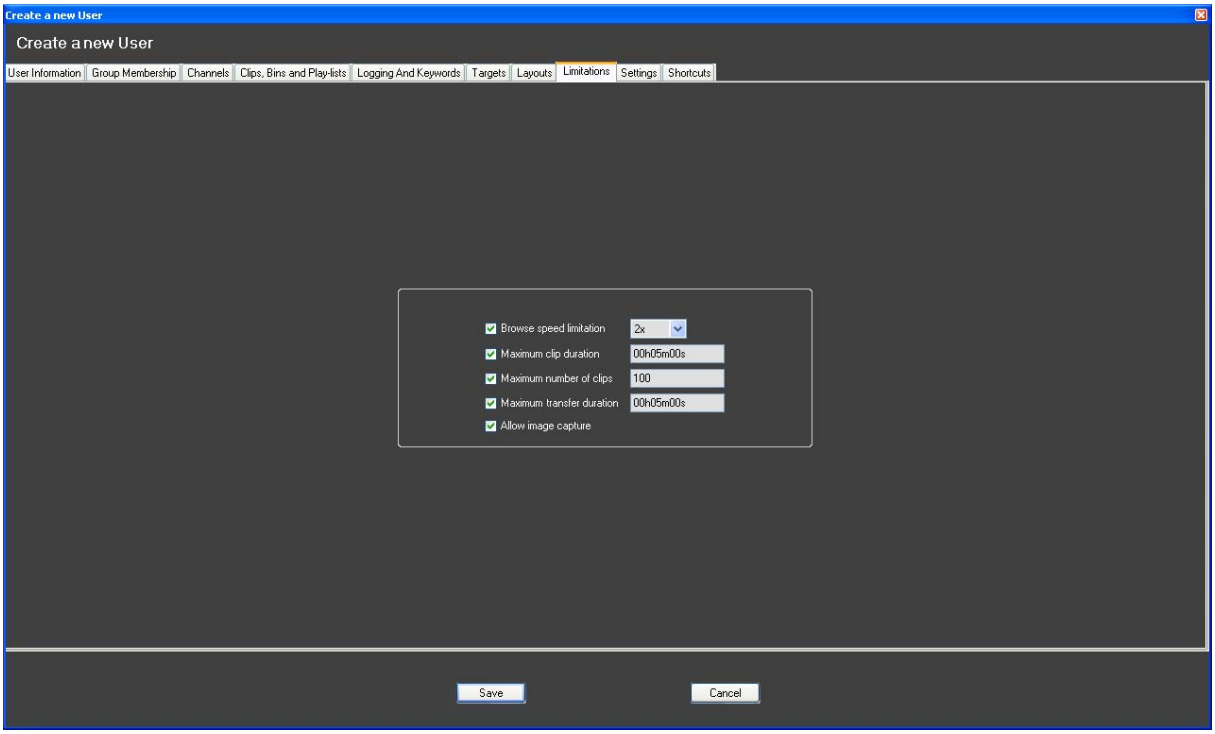
Group(s): the user can Modify, Delete, etc… all corresponding elements created by all users of the group(s) the user belongs to.

User: the user can only Modify, Delete, etc… all corresponding elements the user created.

None: the user cannot Modify, Delete, etc… any elements, even the elements the user has created.

PREFERENCES:

Limitations tab



The Limitations Tab is used to impose certain limitations to users of the system, typically to reduce their overall impact on the system performance.

Browse Speed Limitation: This allows the user's Browsing Speed to be limited to the selected Value:
2x, 3, 5, 10, 20x, 35x playback speed.

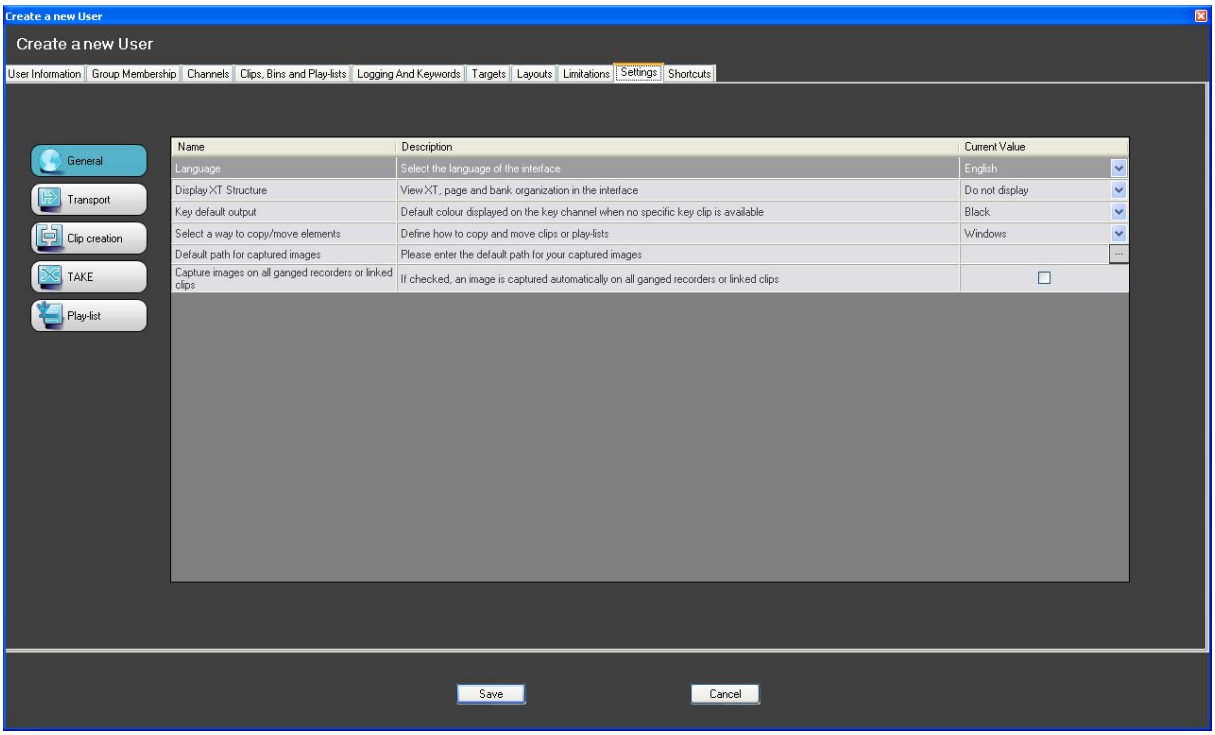
Maximum Clip Duration: The Maximum duration that user is allowed to make a clip. This is used when it is desirable to limit the user's impact on the overall server's storage space by limiting their individual clip creation duration.

Maximum number of clips: The Maximum numbers of clips that user is allowed to make on the system. This is used when it is desirable to limit the user's impact on the overall server's storage space by limiting their individual clip creation.

Maximum transfer duration: The Maximum duration that user is allowed to transfer through an XFile. This is used when it is desirable to limit the user's impact on the overall network traffic and XFile storage by limiting their individual clip transfer duration.

Allow image capture: Authorize to capture images from the Control Panel and the Clip Editor.

Settings tab



The Settings tab defines the values given to all settings for a particular user.

Settings are grouped into 5 categories:

General: Language, Display XT Structure, Key default output, Copy/Move method, Default path for capture and capture on ganged channels.

Transport: Settings related to playback transport function: Play VAR speed, Fast Forward speed and Fast Rewind speed, Auto play on load.

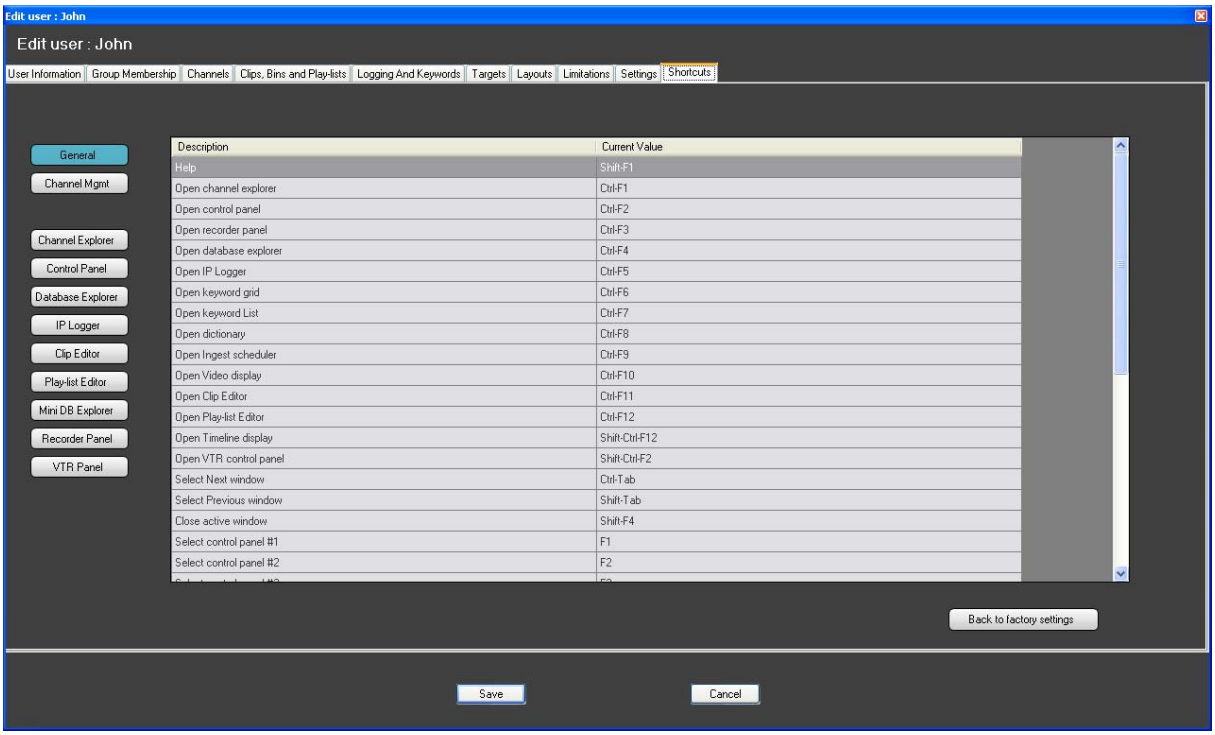
Clip creation: Settings related to clip creation: Guard bands, Default clip duration, Open save clip windows, Create clips on all synchronized recorders, My clips only in the "Last clips created list", Default XT for partial clip restore, Premark and Postmark for automatic clip creation.

Take: Settings related to the 'Take' function: Default video effect type and duration, Default audio effect type and duration.

Play-list: More than 25 settings related to the play-list management, the play-list editor, including colors and audio/video effect properties.

Note: Users can modify all settings value from the Tools/settings menu in the IP Director GUI. Only 'User' settings can be changed, not 'Global' settings.

Shortcuts tab



The Shortcuts tab defines the keystroke assigned to all shortcuts for a particular user.

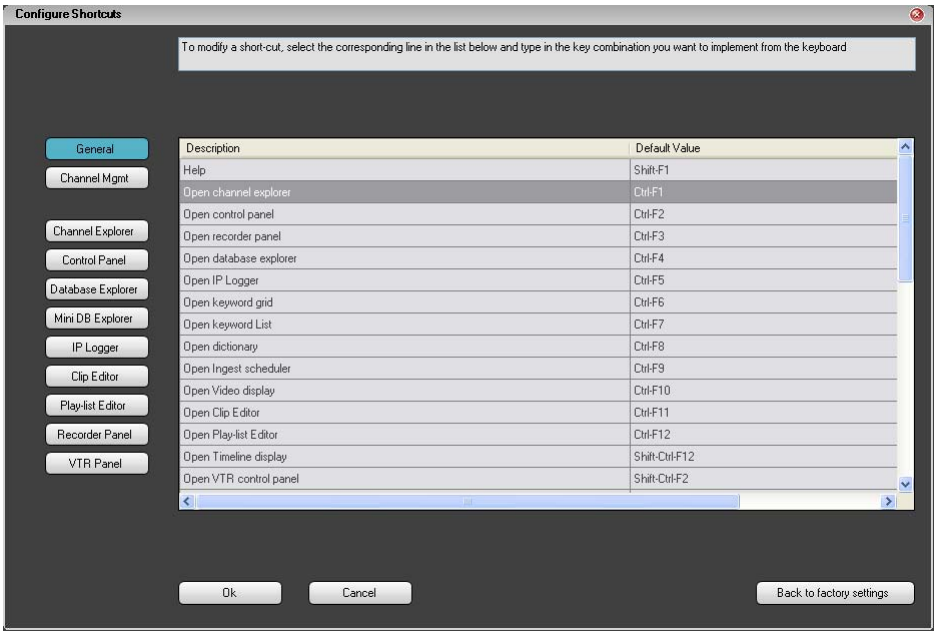
A shortcut is associated to a particular function. The same function can be found in different applications.

Note: Push the “Back to factory settings” to restore default EVS shortcuts.

Modify a shortcut default value:

To modify a shortcut default value associated to a particular function, the administrator must first select the line corresponding to the function then press the shortcut on the keyboard.

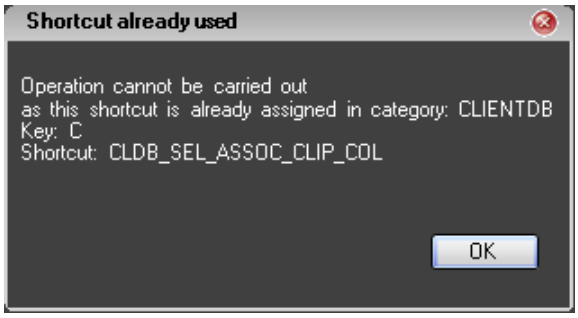
If the shortcut is not already associated to a function in the general category or a function in the category the shortcut is immediately changed.



Modify a shortcut of the 'general' category:

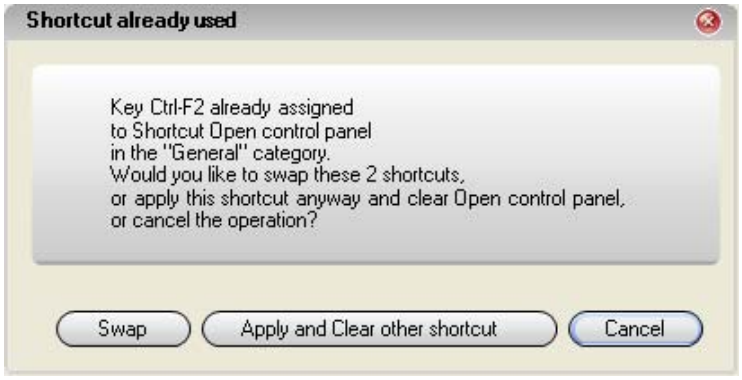
If the shortcut is already assigned to a function in the general category but not in other categories, see the paragraph 'Modify a shortcut of other categories' below.

If the shortcut is already assigned to a function in other categories, the following message is displayed:



Modify a shortcut of other categories:

If the shortcut is already associated to a function in the general category, a popup window is displayed:


Shortcut already used
Key Ctrl-F2 already assigned
to Shortcut Open control panel
in the "General" category.
Would you like to swap these 2 shortcuts,
or apply this shortcut anyway and clear Open control panel,
or cancel the operation?
Swap
Apply and Clear other shortcut
Cancel

If the administrator selects 'SWAP', the two shortcuts are swapped between the 2 functions.

If the administrator selects 'Apply and Clear other shortcut', the shortcut is applied to the selected function and the other function shortcut is cleared.

If the administrator selects 'CANCEL', the operation is cancelled.

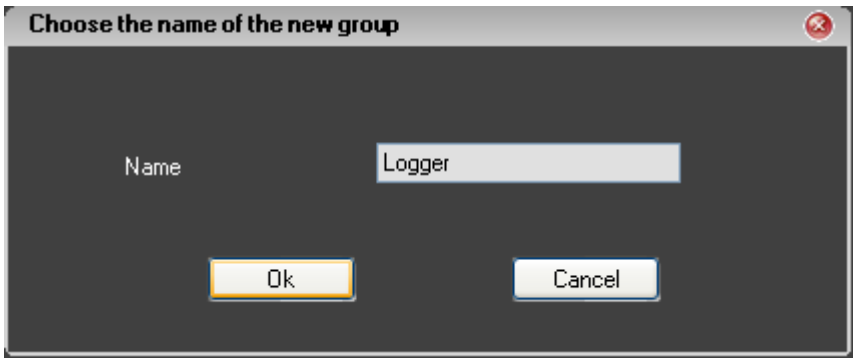
Create a new group.

One of the first steps in defining Users for a installation of IP Director is to define 'Groups' that they will belong to. Groups allow administrators to coordinate access to items based on groupings rather than by ALL or by USER.

Note: For simple setups, you should skip this step and proceed to Profile creation.

Select 'New' from the 'Groups' menu or click on the 'New group' button in the main window to create a new group.

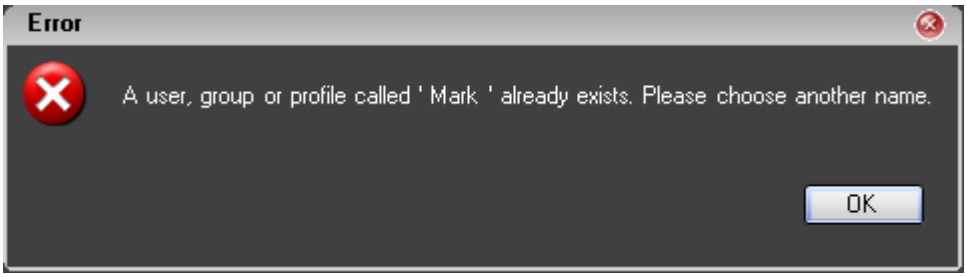
The 'New group' window is opened.



Give a name to the new group, then click OK.

Note: Users, Groups, Profiles must have different names. If "Mark" needs his own group, enter "G_Mark" as group name for example.

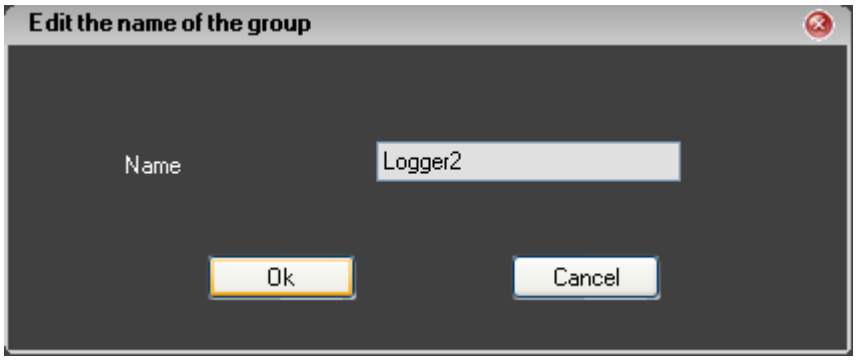
An error window opens if name already exists:



Modify (rename) a group.

Select 'Modify' from the 'Groups' menu or click on the 'Modify group' button in the main window to create a new group.

The 'Edit the name of the group' window is opened.

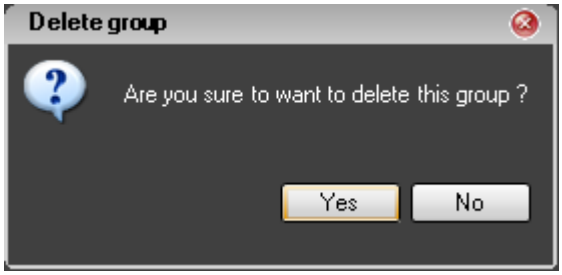


Modify the name of the group, and then click OK.

Delete a group.

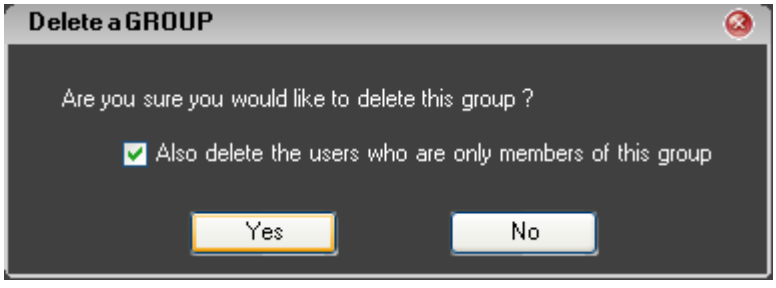
To delete a group, first select the group in the main window interface. Then, Select 'Delete' from the 'Groups' menu or click on the 'Delete group' button in the main window to delete the group.

A confirmation window is opened.



Click Yes to confirm, No to cancel.

Note: Deleting a non-empty group opens a different confirmation window. Check the box if you want to delete users belonging to the group.


Delete a GROUP
Are you sure you would like to delete this group ?
Also delete the users who are only members of this group
Yes
No

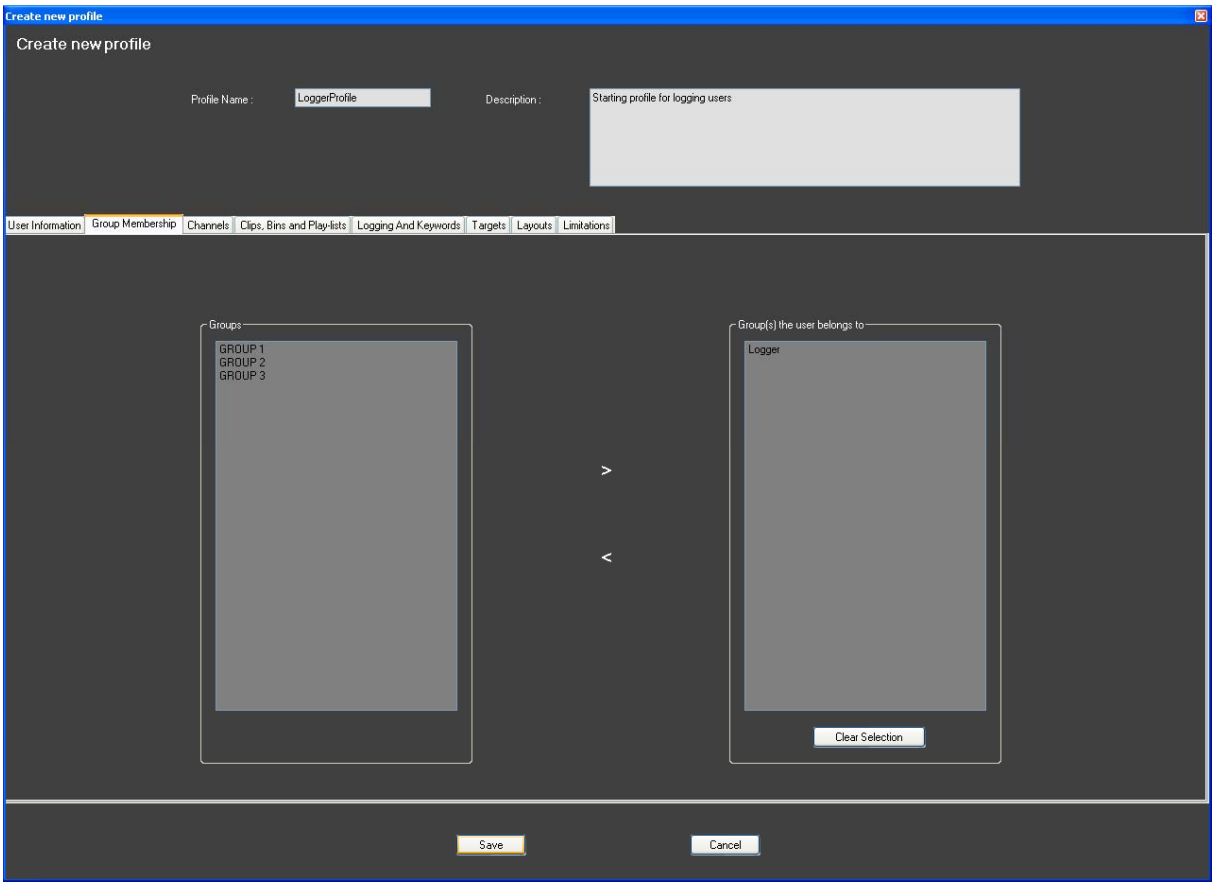
Create a new profile

Profile creation can save the administrator time when defining new users into the system.
A profile can be used when several users have the same set of settings values.
It avoids selecting the same boxes for each user who can be considered similar in their access rights.

Example, profiles will make adding 25 new logging users a rapid process because the elements and channel access is usually identical for all the loggers. So, the administrator would define 1 profile, use that profile to start each new logger's user creation.

This step is optional, and can be skipped. Proceed to User creation in this case.

Select 'New' from the 'Profiles' menu.
The 'Create New profile' window is opened.



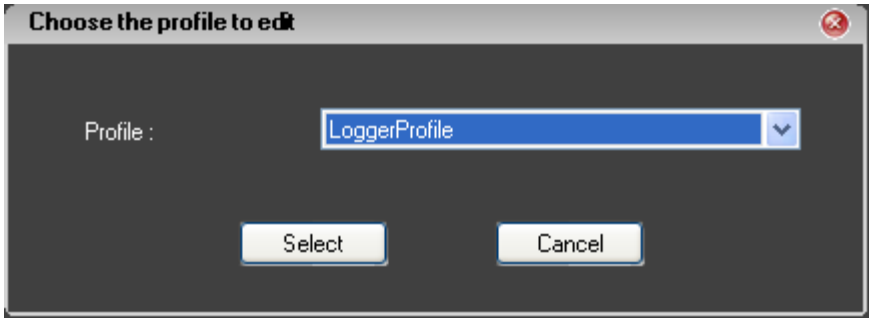
Give a name to the profile (mandatory) and optionally a description. Then fill in the characteristics of the profile you would like to create including group membership, channels, elements, system configuration and preferences.

When complete, click Save.

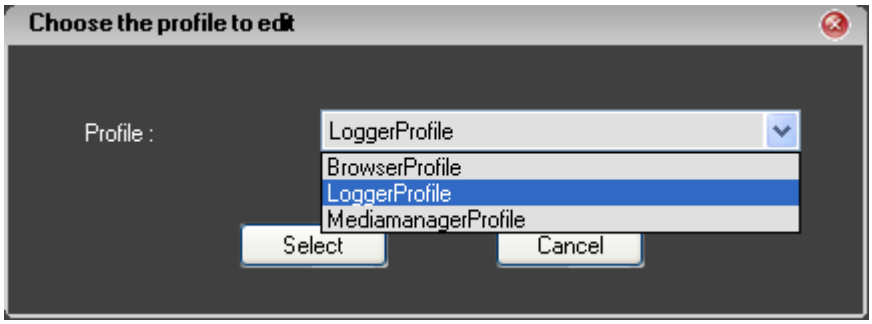
Modify an existing profile

Select ‘Modify’ from the ‘Profiles’ menu.

Choose the profile you would like to modify from the following window.

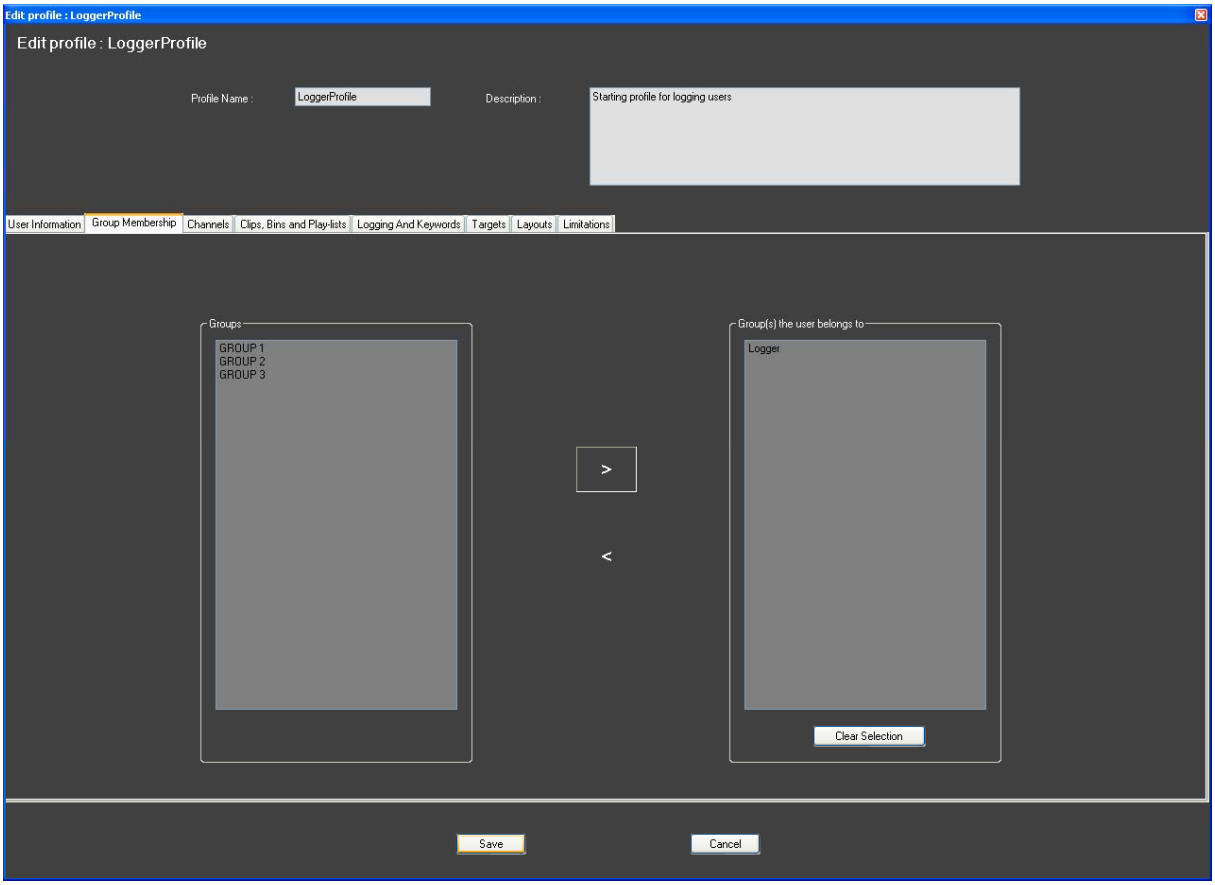


Select the profile from the drop down box.



When done, click Select.

The ‘Edit profile’ window is opened.



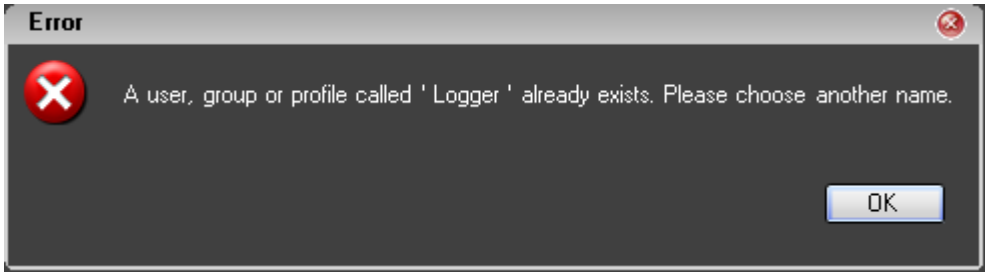
All characteristics of the profile can be modified including name, description, group membership, channels, elements, system configuration and preferences.

Click **Save** when the profile characteristics have been modified.

Note: Changing a profile will not affect any previously created users from this profile. It will only be changed for new users from this point on.

Note: Users, Groups, Profiles must have different names. If loggers need their own profile, enter "LoggerProfile" as group name for example.

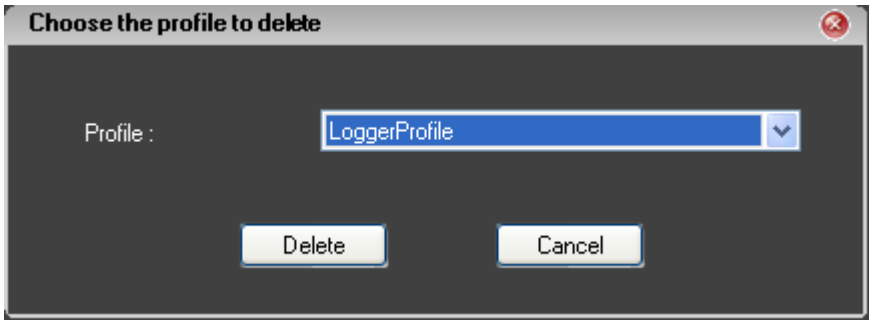
An error window opens if name already exists:



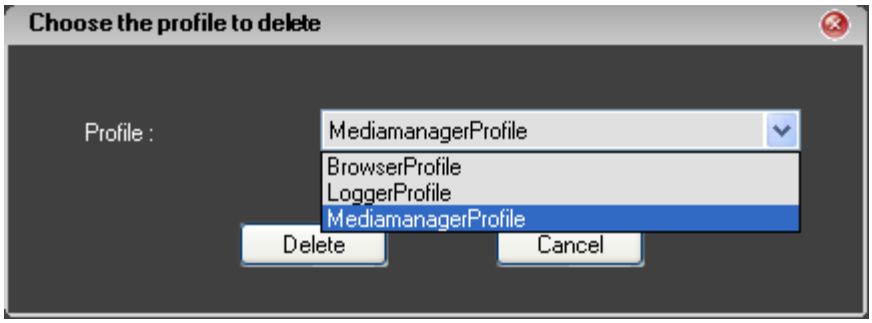
Delete a profile

Select ‘Delete’ from the ‘Profiles’ menu.

Choose the profile you would like to delete from the following window.

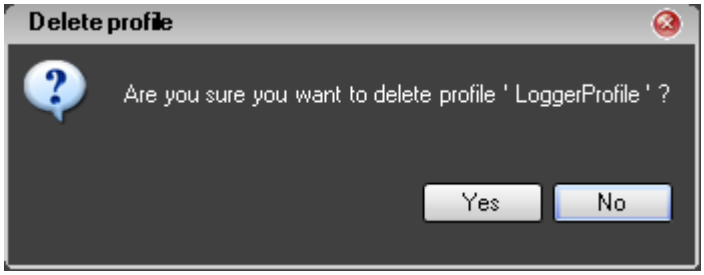


Select the profile from the drop down box.



When done, click Select.

A confirmation window is opened.



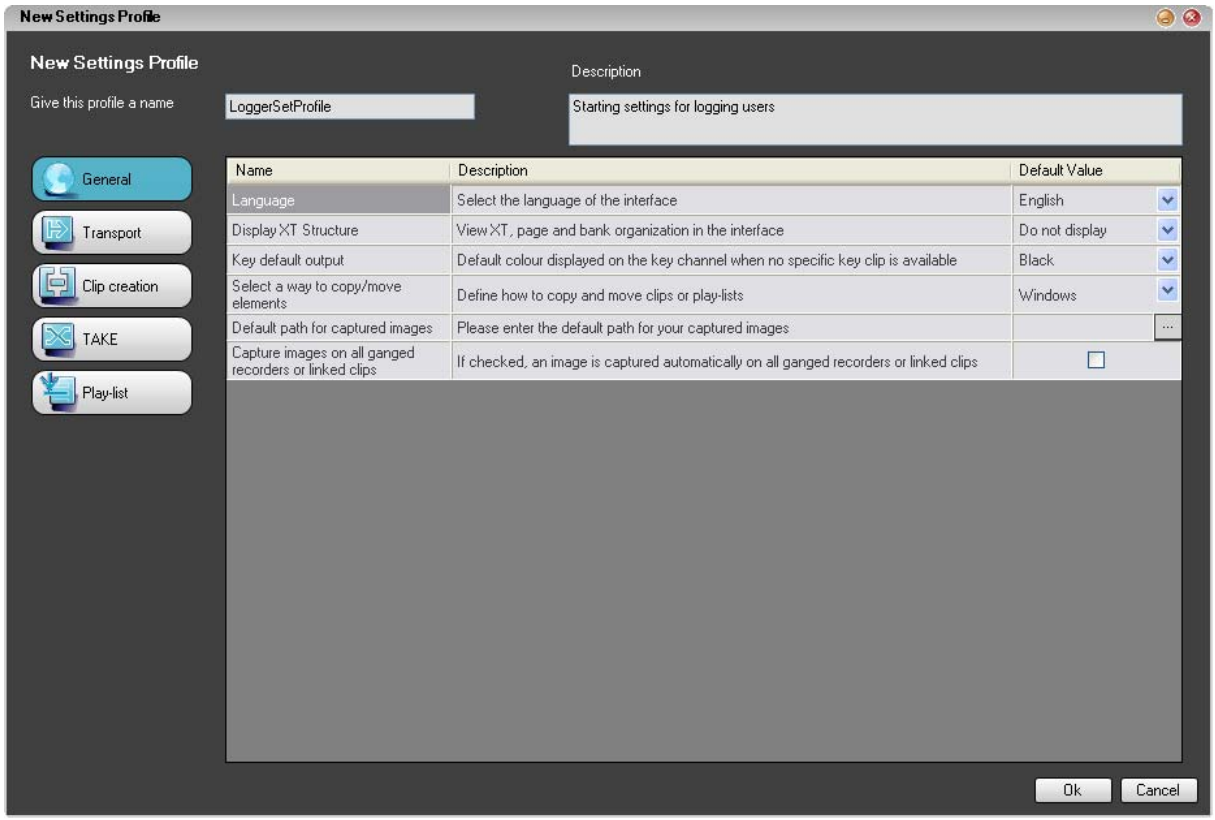
Create a new settings profile

Settings profile creation can save the administrator time when defining new users into the system. A settings profile can be used when several users have the same set of setting values.

If no setting profile is used, immediately proceed to User creation in this case.

Select 'New' from the 'Settings Profiles' menu.

The 'New settings profile' window is opened.



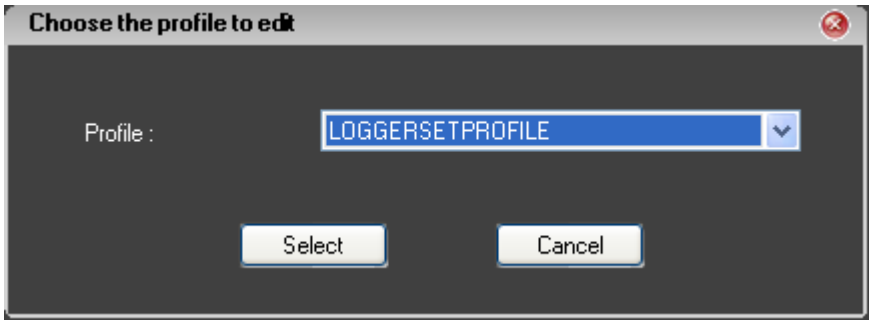
Give a name to the settings profile (mandatory) and optionally a description. Then fill in the characteristics of the profile you would like to create including General, Transport, Clip creation, TAKE and Play-list preferences.

When complete, click OK.

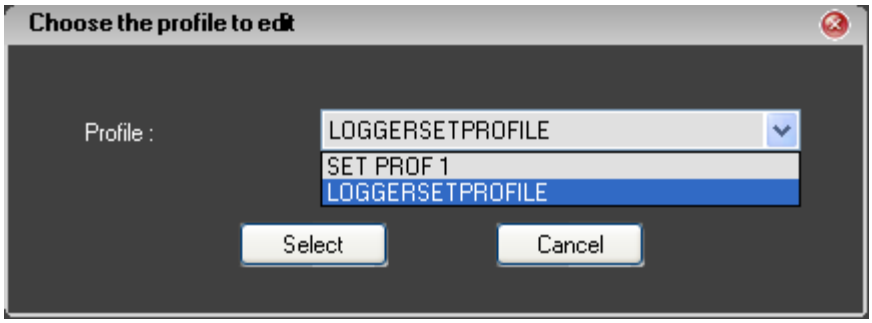
Modify an existing settings profile

Select ‘**Modify**’ from the ‘Settings Profiles’ menu.

Choose the settings profile you would like to modify from the following window.

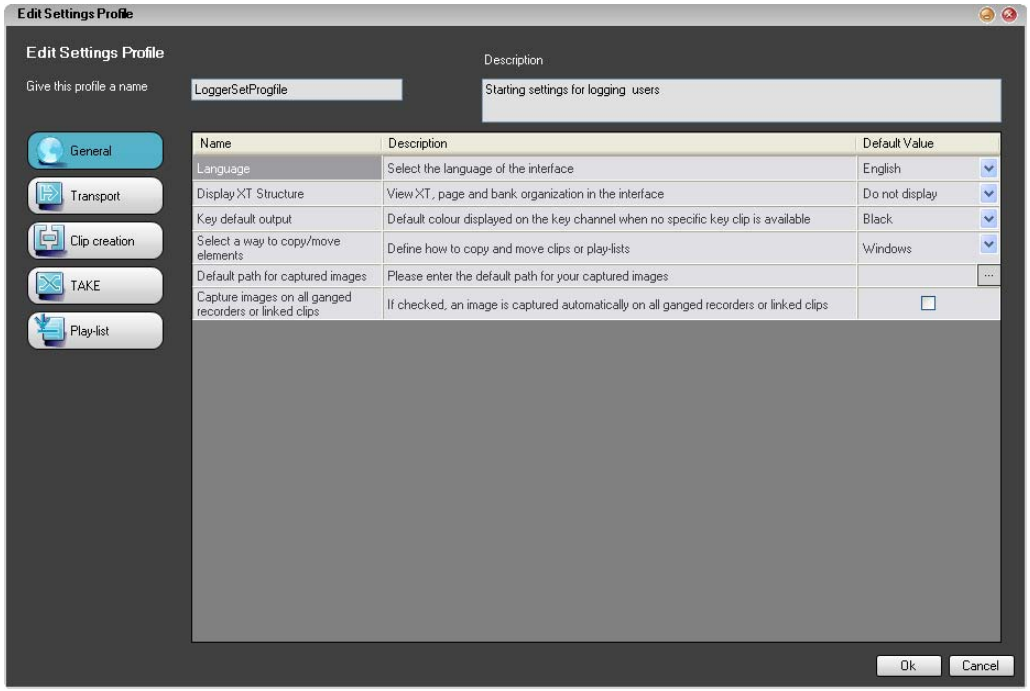


Select the profile from the drop down box.



When done, click **Select**.

The ‘Edit settings profile’ window is opened.



All characteristics of the settings profile can be modified including Name, Description, General, Transport, Clip creation, TAKE and Play-list preferences.

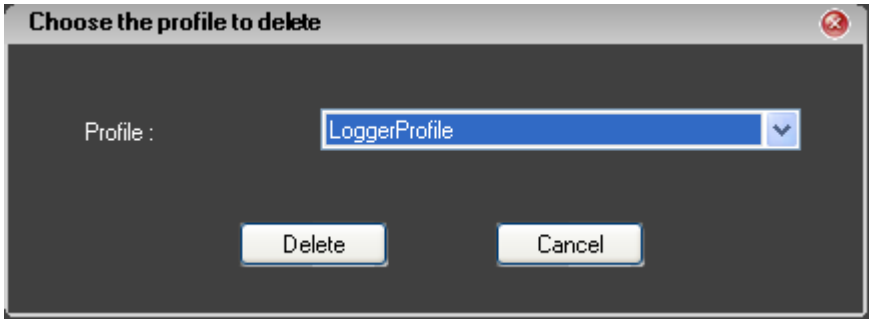
Click Ok when the profile characteristics have been modified.

Note: Changing a settings profile will not affect any previously created users from this profile. It will only be changed for new users from this point on.

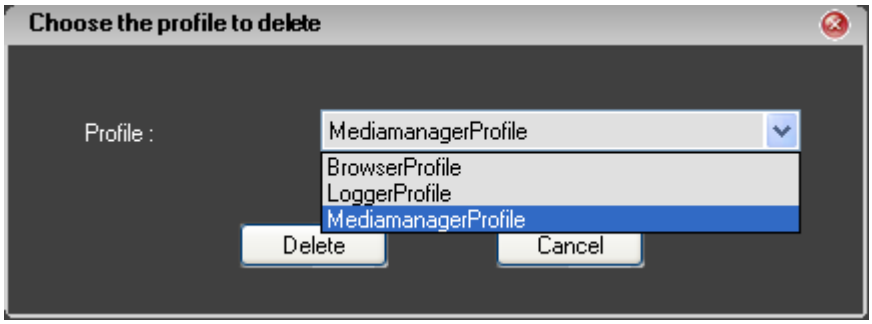
Delete a profile

Select 'Delete' from the 'Profiles' menu.

Choose the profile you would like to delete from the following window.

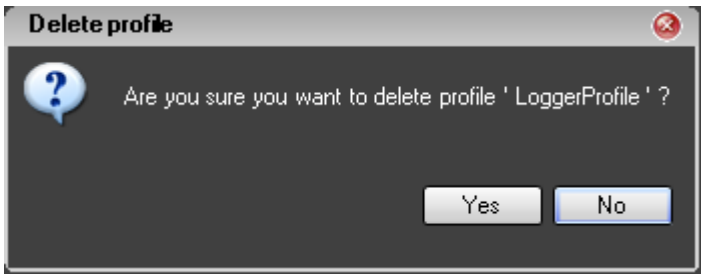


Select the profile from the drop down box.



When done, click Select.

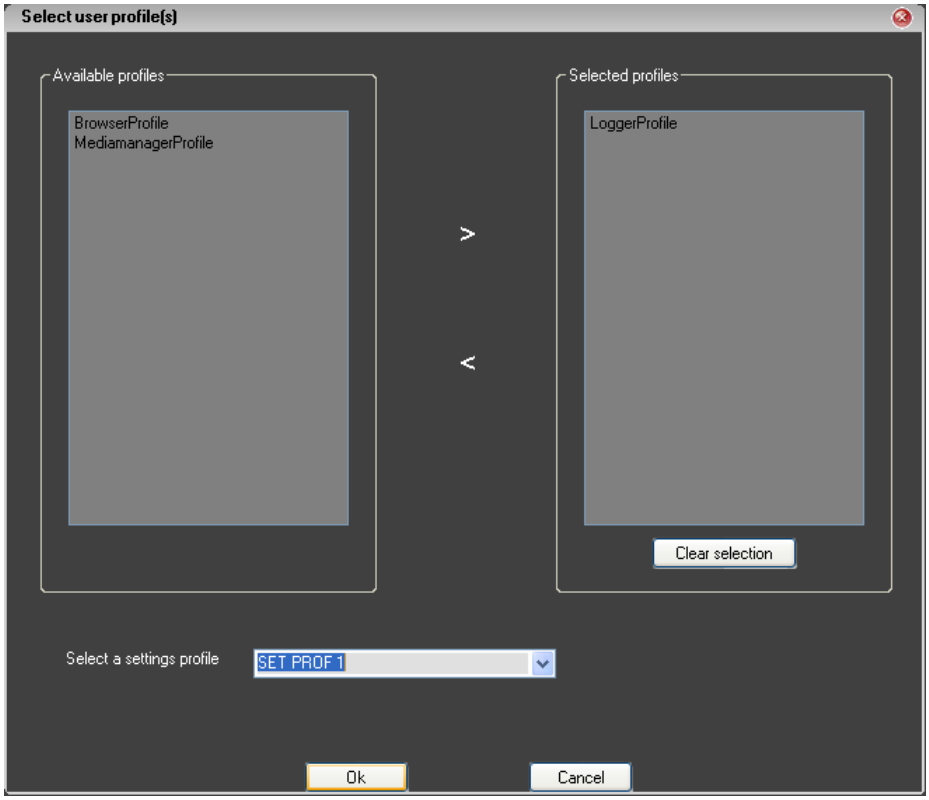
A confirmation window is opened.



Create a new user.

Select ‘New’ from the ‘Users’ menu or click on the ‘New user’ button in the main window to create a new user.

The ‘Select user profile(s)’ window is opened.



This window is optional. Select the profile(s) characteristics you would like to apply to the new user. Several profiles can be combined to create a new user account.

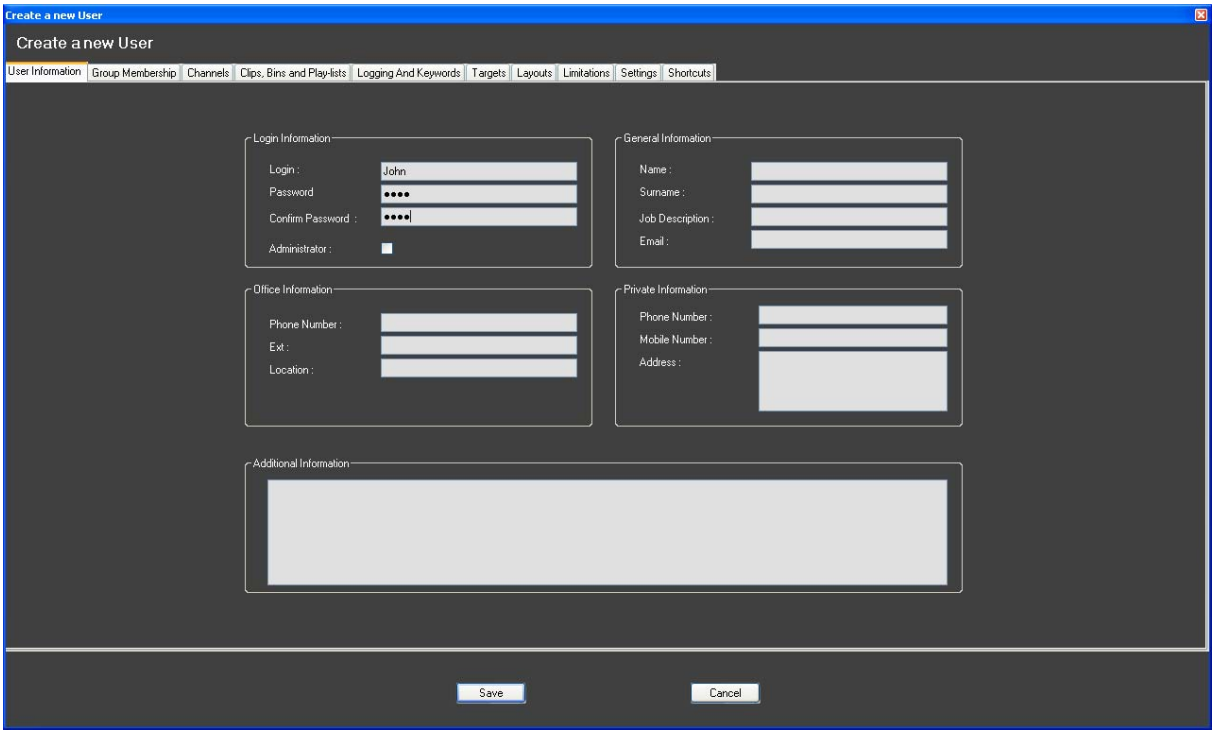
Simply select the profile in the left list and click on the **>** button. The **<** button can be used to remove a profile from the selected list.
Select the settings profile from the drop down box.

It is not mandatory to select a user profile and a settings profile to define a new user account. If no profile has been created yet, these lists will be empty.

Click OK when your selection is done.

The ‘Create a new user’ window is opened.

Note: Once a user is defined, the profile is no longer linked to the user’s settings. Therefore, future updates to the Profile will only apply to future users created from that profile.



Enter a login and a password for the new user. Confirm the password. Enter all useful information concerning the user.

Check the Administrator box if the user should have administrator rights on the system.

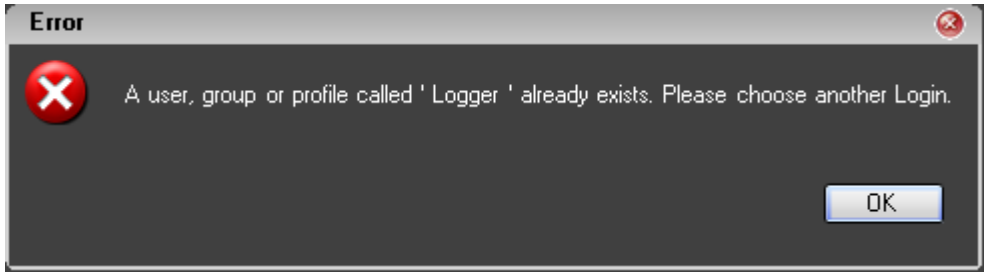
Note: Administrator rights supersede all other tab settings. There is no need to set any other settings for an administrator. For safety, it is advised that manager accounts during operation limit their access to channels in order to protect from accidentally use of another user's playback channel. For this reason, the admin checkbox should be used sparingly.

Fine tune the characteristics (rights) in each tab of the user: Group Membership, Channels, etc.

When the user characteristics are complete, click Save.

Note: Users, Groups, Profiles must have different names.

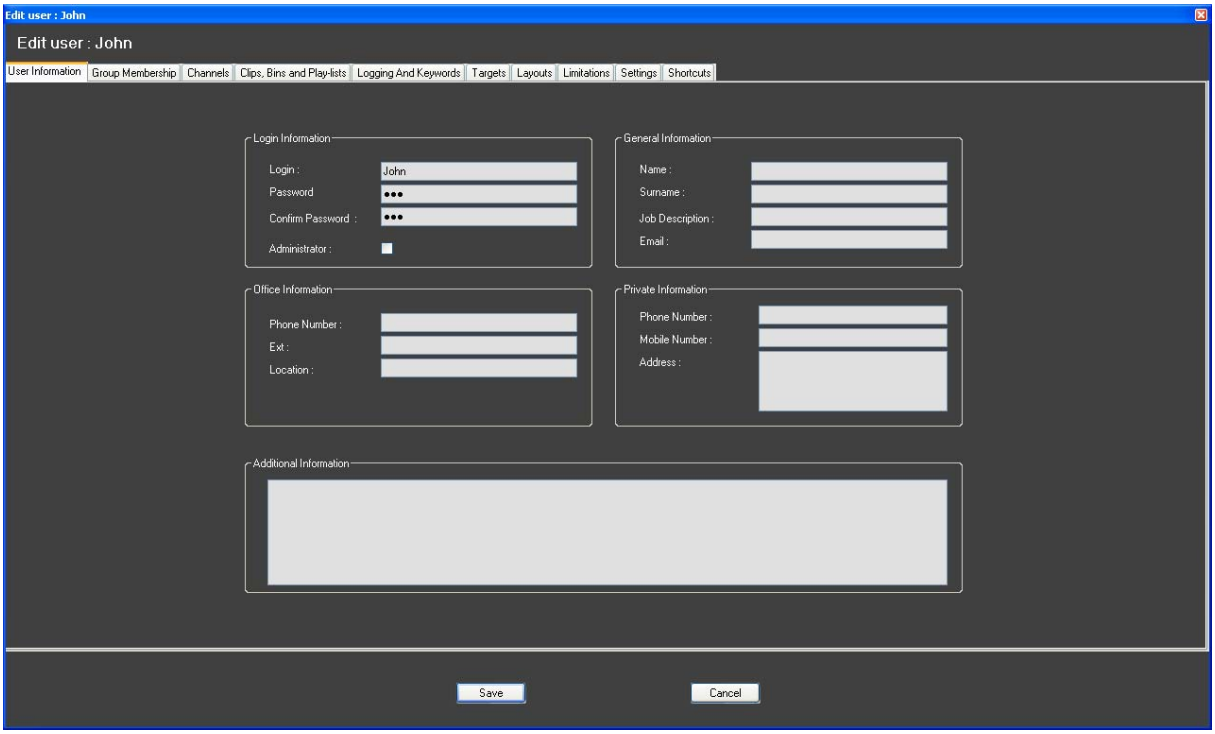
An error window opens if name already exists:



Modify a user account.

Select '**Modify**' from the 'Users' menu or click on the '**Modify user**' button in the main window to modify a user account.

The 'Edit user' window is opened.



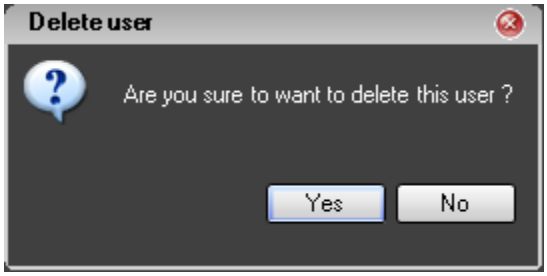
It is now possible to modify all characteristics of the user account.

When done, click **Save**.

Delete a user account.

To delete a user account, first select a user in the main window interface. Then, select '**Delete**' from the 'Users' menu or click on the '**Delete user**' button in the main window to delete a user account.

The 'Delete user' window is opened.



Click **Yes** to confirm, or **No** to cancel the operation.

IP Scheduler

The IP Scheduler is a service in version 4. The Scheduler processes XML files for direct integration to/from the SQL database of the IP Director.

The IP Scheduler icon appears in the taskbar next to the IP-Routing, SynchroDB and VTR Engine.

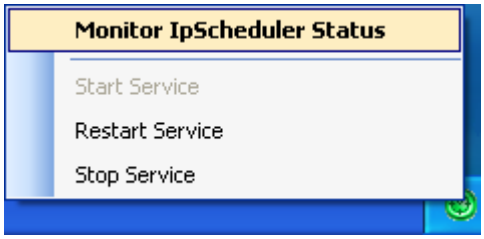
Upon startup of the IP Director, the IP Scheduler will automatically start if set to autostart from the Remote Installer.

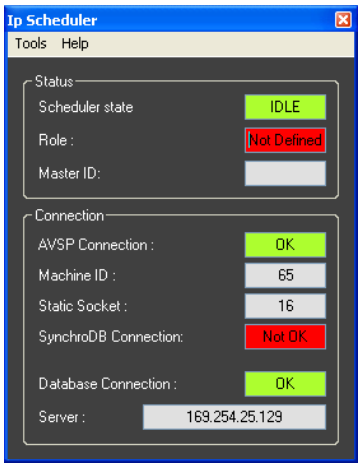
The orange icon becomes green in the Windows XP System Tray of the workstation where the service is started.

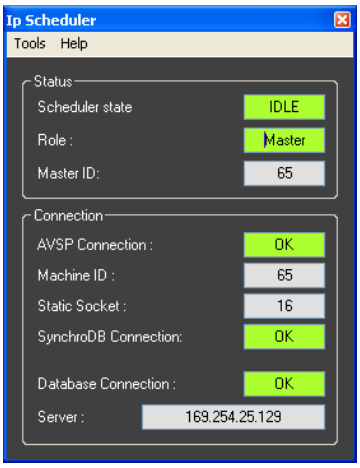
Job Manager

The Job Manager allows the user to review the defined jobs that the scheduler will process, and also add new manually created jobs for the system.

The Job Manager can be started from the IP Scheduler Status window. Right click on the IP Scheduler icon and open the IP Scheduler Status window.

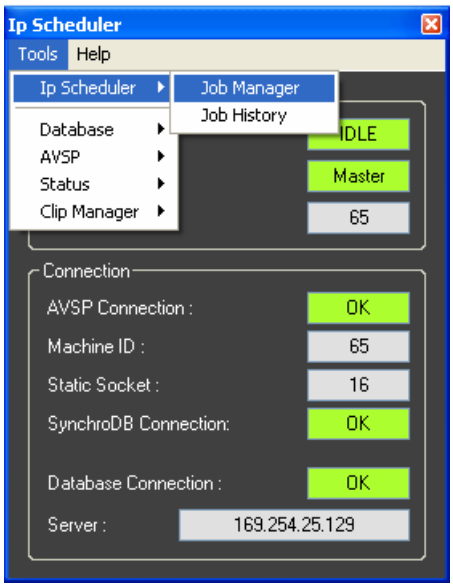




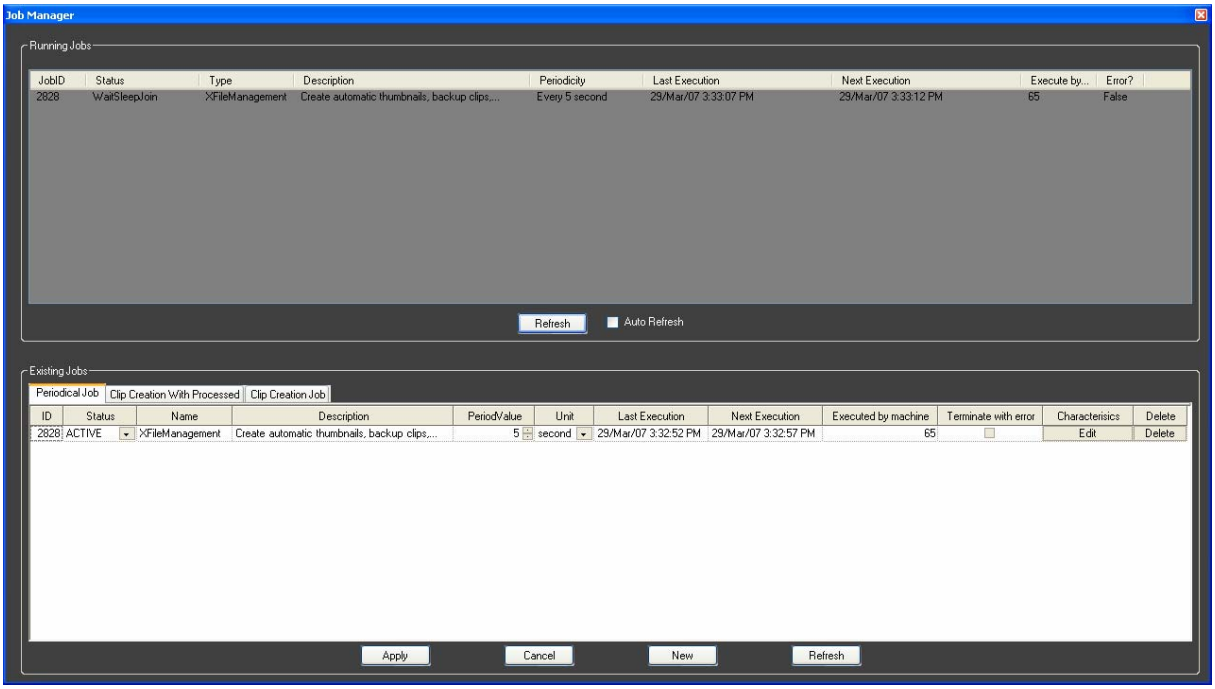


Note: While the IP Scheduler is establishing connection to the Database and XML paths, the IP Scheduler Connection and Role will appear in RED. After some time, they should change to a GREEN state. Afterwards, you may minimize the window.

In the IP Scheduler Status window, select Tools/Ip Scheduler than Job Manager.



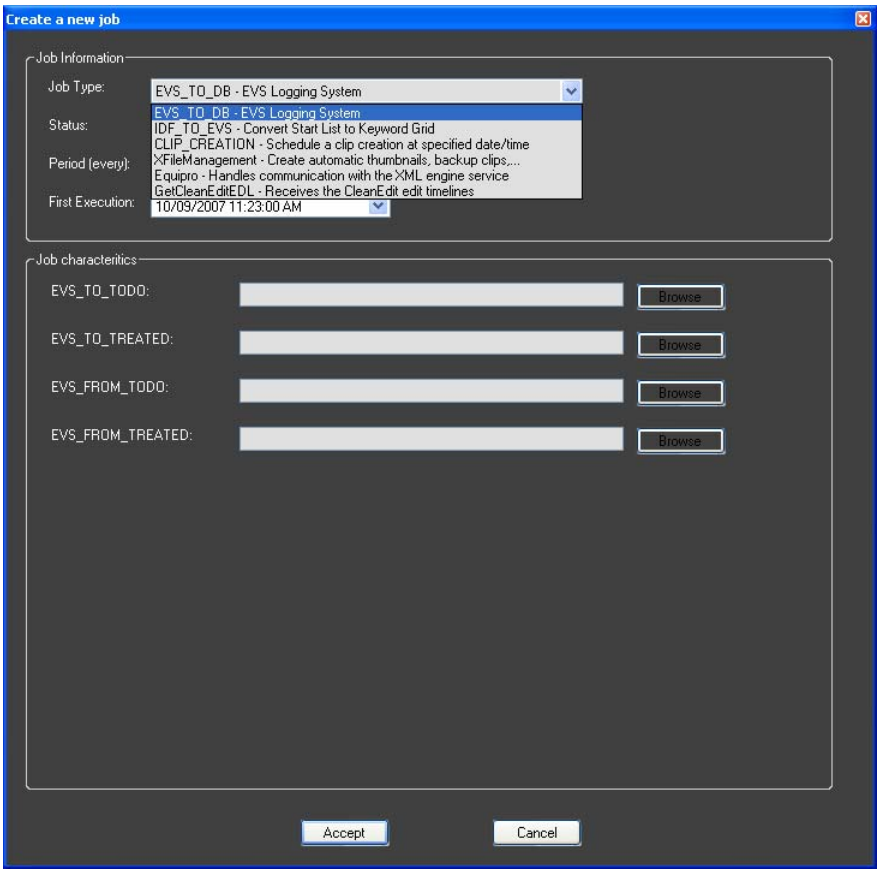
Below is an example of the Jobs Manager screen with the AutoThumbnail creation running.



Create a new job

Creating a new job is mainly useful for managing external information systems like a stats feed or other data coming from an XML managed system.

To create a new job, click on the 'New' button.
The 'Create a new job' window is displayed.



Job Type:

Select the type of job you want to create:

- EVS_TO_DB – 3rd Party EVS Logging System
- IDF_TO_EVS – Convert IDF Start List to Keyword Grid
- CLIP_CREATION – Scheduled clip creation
- THUMBNAIL – Create automatic thumbnails
- EQUIPRO – Handles communication with XML engine
- GetCleanEditEDL – Receives the CleanEdit edit timelines

Period:

The IP Scheduler will poll into one incoming directory, searching for new XML files. Select the periodicity of this polling process. By default, the period is 1 second.

First Execution:

The first execution corresponds to the date and time when the job will start polling.

Job characteristics:

Job characteristics are the different directories involved in the job process.

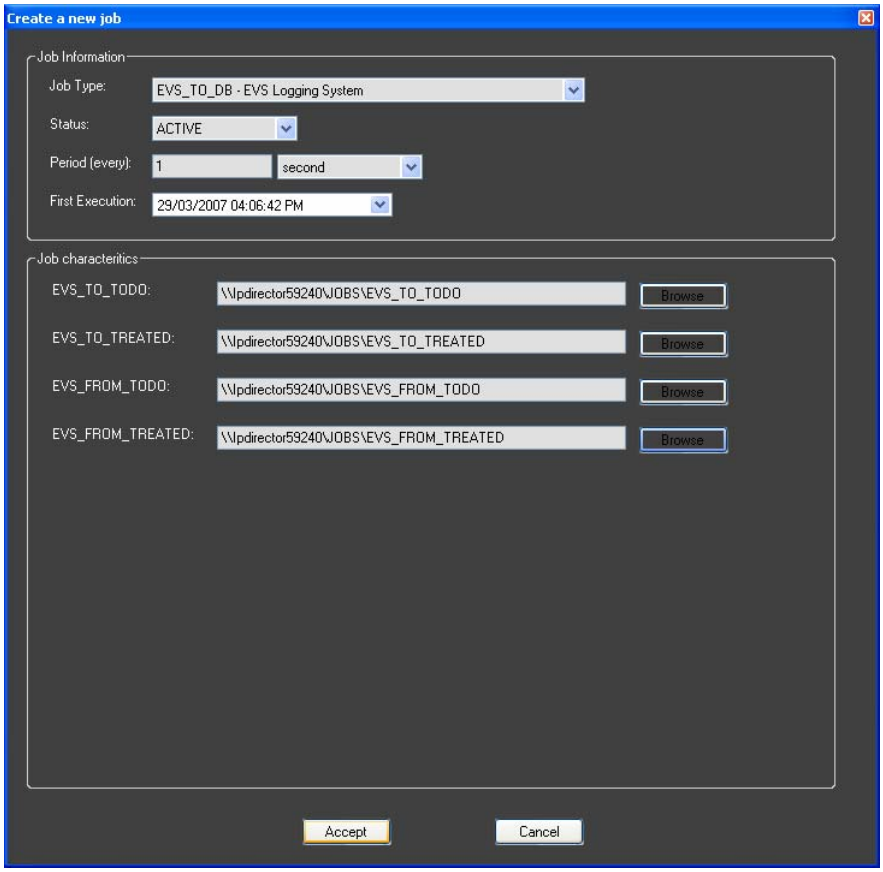
Every job has different characteristics, refer to the corresponding paragraphs for more information.

EVS_TO_DB – EVS LOGGING SYSTEM

This type of job is run when the IP Director is interfaced to an external logging system or stats system. This external logging application will send XML files corresponding to logsheets, logs and/or keyword grids which will be inserted in the IP Director database.

The processed information is then available for browsing purposes in the IP Director interfaces.

The job characteristics:



The IP Scheduler will poll on the EVS_TO_TODO directory to find all jobs (xml files corresponding to logsheet, logs or keyword grids) which must still be treated and insert the corresponding data in his/her database. When the EVS system has treated the job, the xml file will be moved into the EVS_TO_TREATED directory.

The 3rd party system will poll on the EVS_FROM_TODO directory to find all jobs (xml files) which must still be treated and process the information. When the 3rd Party system has treated the job, the xml file must be moved into the EVS_FROM_TREATED directory.

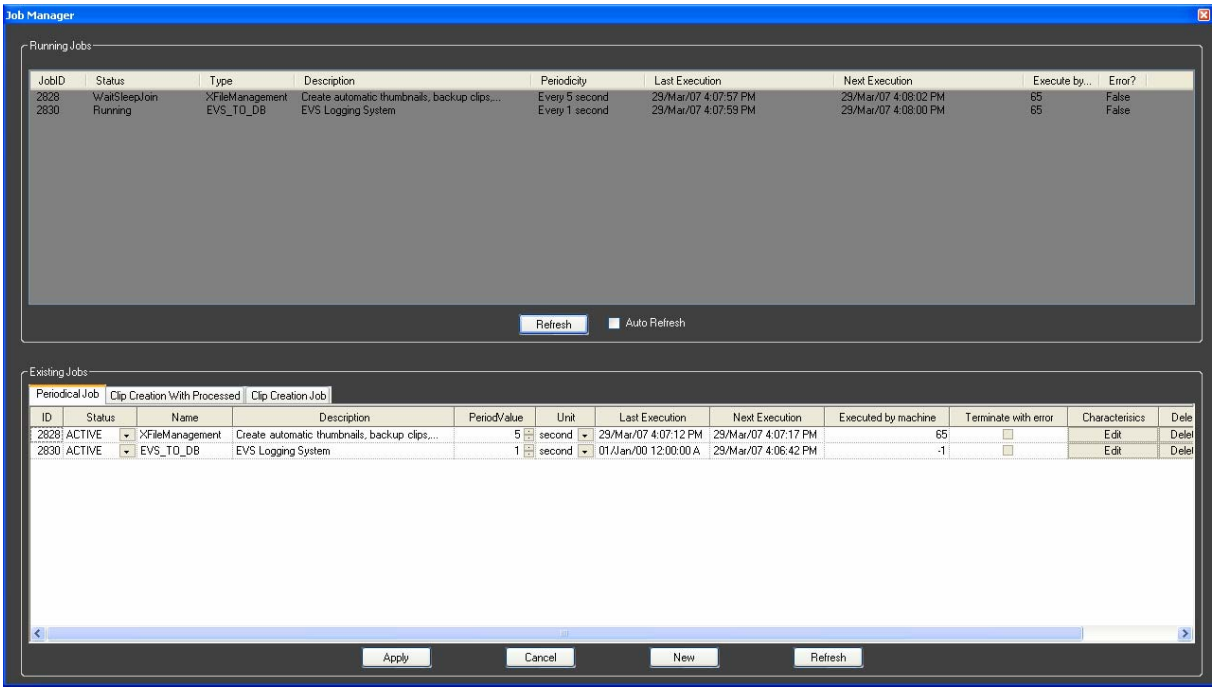
Directory Name	Directory content
EVS_TO_TODO	Data to be treated from 3rd party system to EVS system
EVS_FROM_TODO	Data to be treated from EVS system to 3rd party system
EVS_TO_TREATED	Data treated from 3rd party system to EVS system
EVS_FROM_TREATED	Data treated from EVS system to 3rd party system

Click on the 'browse' buttons in front of the characteristics to define the corresponding directories.

Note: The directories must be shared with full access control.

When all directories are defined, click on 'Accept' to validate the new job creation.

The new job now appears in the job list.


Job Manager
Running Jobs
JobID Status Type Description Periodicity Last Execution Next Execution Execute by... Error?
2828 WaitSleepJoin XFileManagement Create automatic thumbnails, backup clips,... Every 5 second 29/Mar/07 4:07:57 PM 29/Mar/07 4:08:02 PM 65 False
2830 Running EVS_TO_DB EVS Logging System Every 1 second 29/Mar/07 4:07:59 PM 29/Mar/07 4:08:00 PM 65 False
Refresh
Auto Refresh
Existing Jobs
Periodical Job
Clip Creation With Processed
Clip Creation Job
ID Status Name Description PeriodValue Unit Last Execution Next Execution Executed by machine Terminate with error Characterisics
2828 ACTIVE XFileManagement Create automatic thumbnails, backup clips,... 5 second 29/Mar/07 4:07:12 PM 29/Mar/07 4:07:17 PM 65 Edit
2830 ACTIVE EVS_TO_DB EVS Logging System 1 second 01/Jan/00 12:00:00 A 29/Mar/07 4:06:42 PM -1 Edit
Apply
Cancel
New
Refresh

If it does not appear, click on the corresponding '**Refresh**' buttons.

IDF_TO_EVS – CONVERT START LIST TO KEYWORD GRID

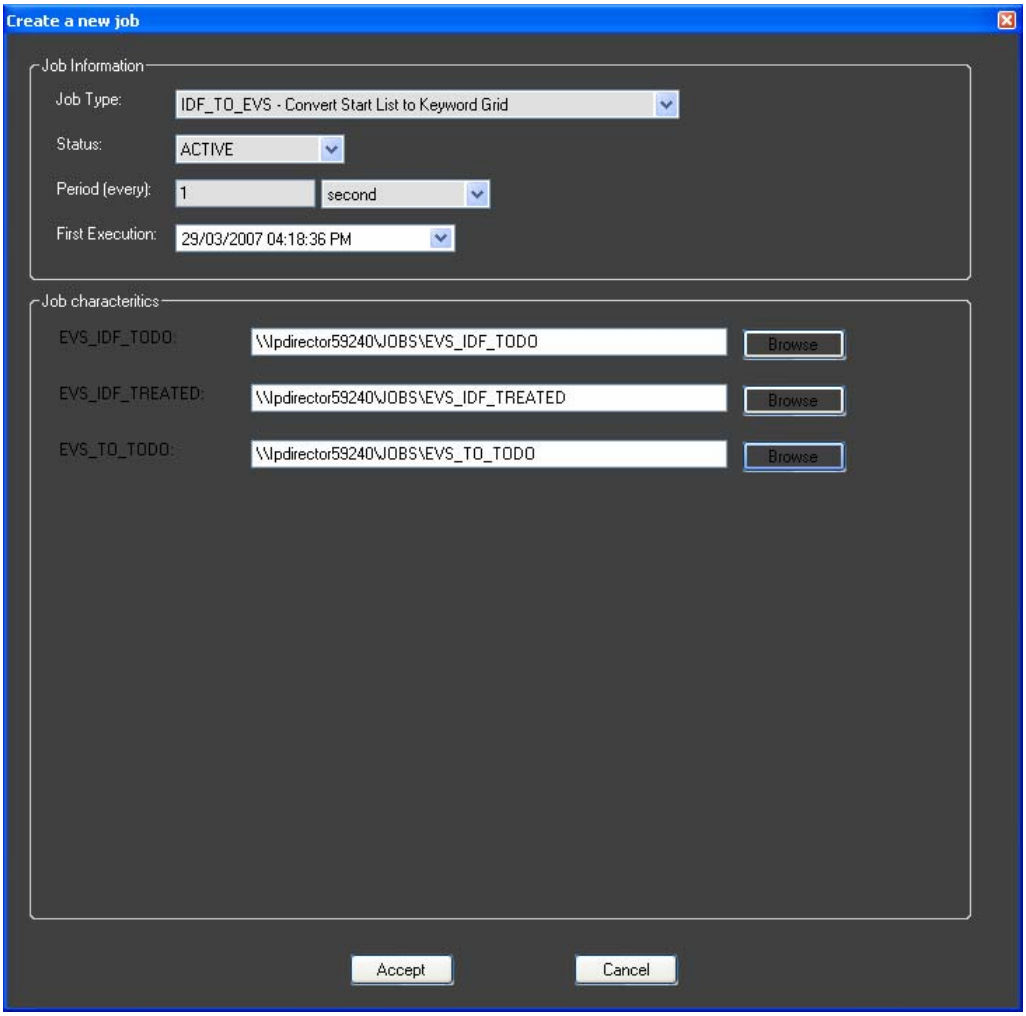
This job is used to convert IDF XML files into keyword grids. IDF XML files contains athletes start list, players, teams or default keywords.

<u>The job characteristics :</u>

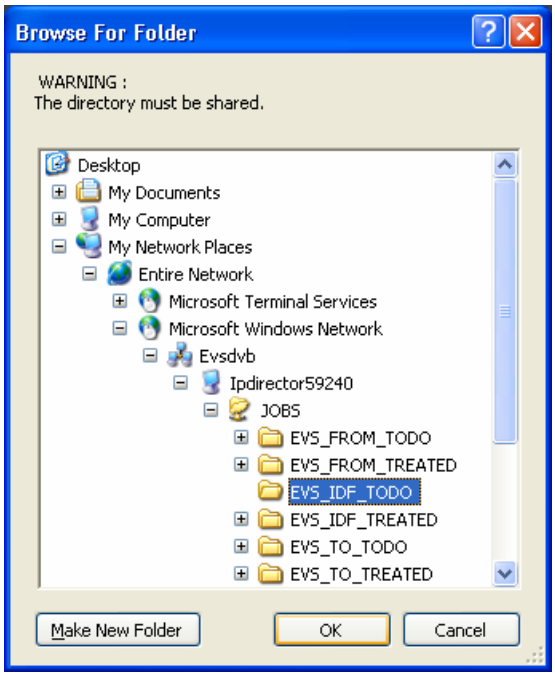
EVS_IDF_TODO: this is the directory where the IDF XML files will be dropped. The IP Scheduler will poll in this directory for new files to be treated.

EVS_IDF_TREATED: When the IP Scheduler has treated a file, it is moved to the EVS_IDF_TREATED directory.

EVS_TO_TODO: The IP Scheduler transform and IDF XML file into a EVS Keyword grid XML file which, in turn, must be imported into the IP Director database. In consequence, the EVS_TO_TODO directory of this job must correspond to the EVS_TO_TODO directory of the "EVS_TO_DB – EVS Logging System" job described here above.



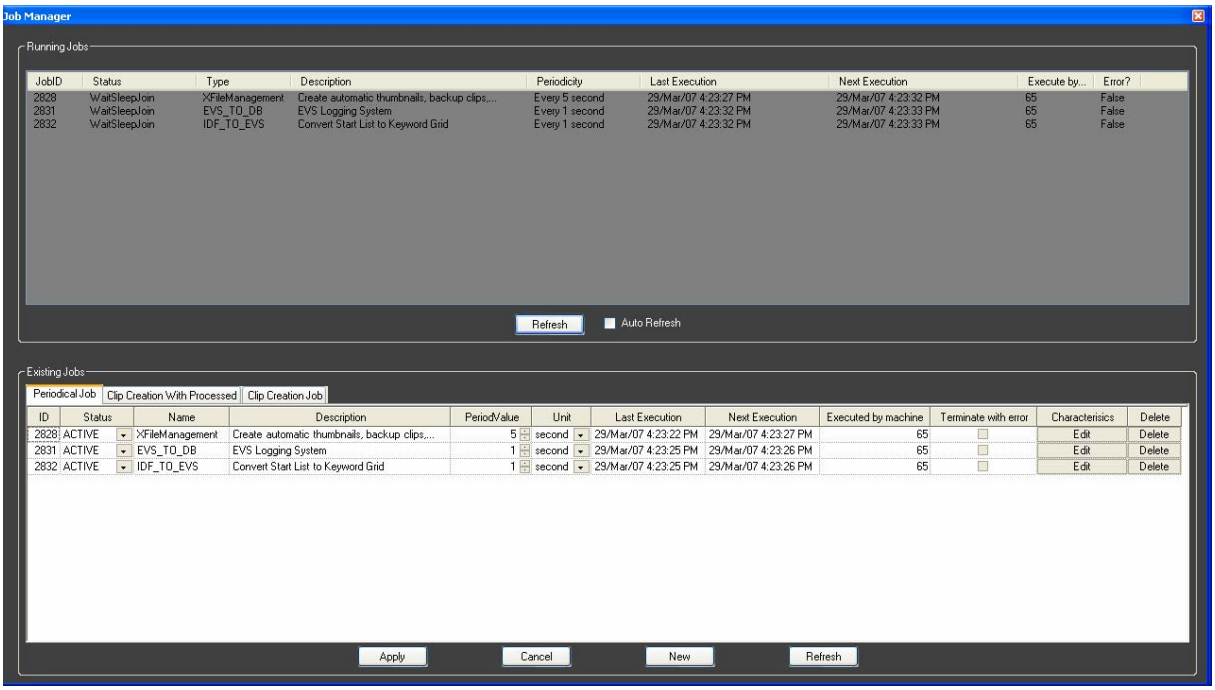
Click on the 'browse' buttons in front of the characteristics to define the corresponding directories.



Note: The directories must be shared with full access control.

When all directories are defined, click on 'Accept' to validate the new job creation.

The new job now appears in the job list.


Job Manager
Running Jobs
JobID Status Type Description Periodicity Last Execution Next Execution Execute by... Error?
2828 WaitSleepJoin XFileManagement Create automatic thumbnails, backup clips,... Every 5 second 29/Mar/07 4:23:27 PM 29/Mar/07 4:23:32 PM 65 False
2831 WaitSleepJoin EVS_TO_DB EVS Logging System Every 1 second 29/Mar/07 4:23:32 PM 29/Mar/07 4:23:33 PM 65 False
2832 WaitSleepJoin IDF_TO_EVS Convert Start List to Keyword Grid Every 1 second 29/Mar/07 4:23:32 PM 29/Mar/07 4:23:33 PM 65 False
Refresh
Auto Refresh
Existing Jobs
Periodical Job
Clip Creation With Processed
Clip Creation Job
ID Status Name Description PeriodValue Unit Last Execution Next Execution Executed by machine Terminate with error Characterisics Delete
2828 ACTIVE XFileManagement Create automatic thumbnails, backup clips,... 5 second 29/Mar/07 4:23:22 PM 29/Mar/07 4:23:27 PM 65 Edit Delete
2831 ACTIVE EVS_TO_DB EVS Logging System 1 second 29/Mar/07 4:23:25 PM 29/Mar/07 4:23:26 PM 65 Edit Delete
2832 ACTIVE IDF_TO_EVS Convert Start List to Keyword Grid 1 second 29/Mar/07 4:23:25 PM 29/Mar/07 4:23:26 PM 65 Edit Delete
Apply
Cancel
New
Refresh

CLIP_CREATION – SCHEDULED CLIP CREATION

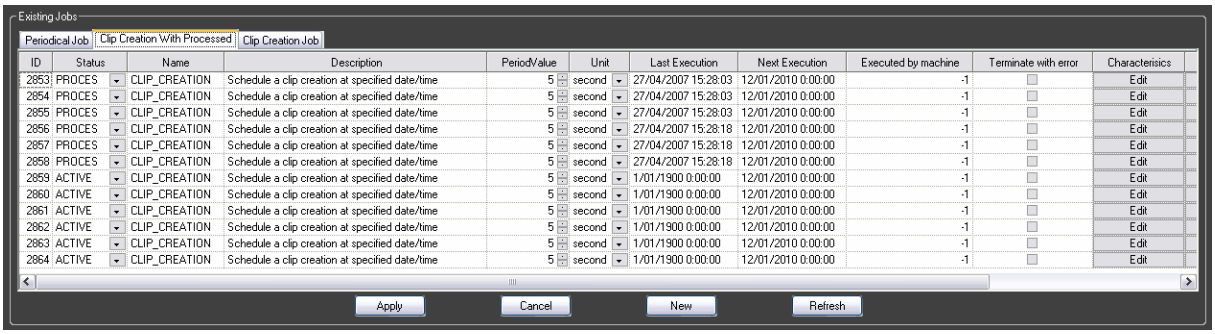
This job is created for automatic clip creation and used by the Ingest Scheduler module.

This job should never be started manually by any operator.

Please refer to the Ingest Scheduler chapter in the Ip Director user's manual.

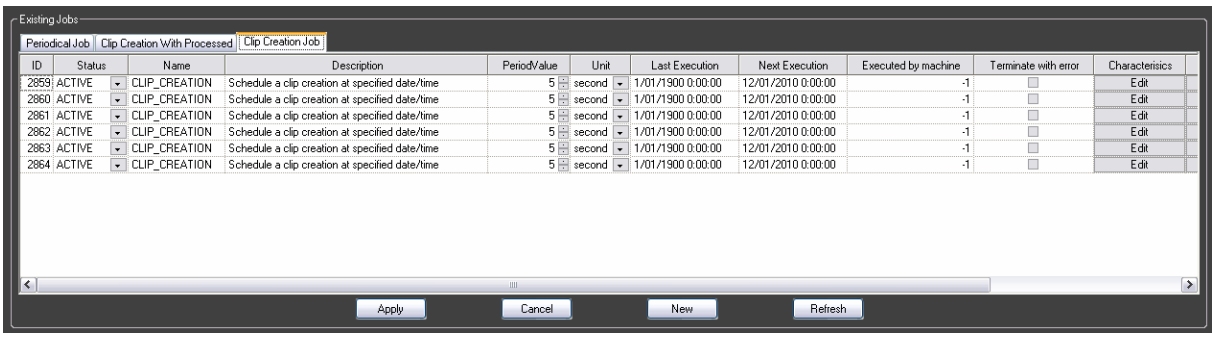
Jobs created by the Ingest Scheduler can be monitored in the Clip Creation With Processed Tab and in the Clip Creation Job Tab.

The Clip Creation With Processed Tab:


Existing Jobs
Periodical Job
Clip Creation With Processed
Clip Creation Job
ID
Status
Name
Description
PeriodValue
Unit
Last Execution
Next Execution
Executed by machine
Terminate with error
Characterisics
2853 PROCES CLIP_CREATION Schedule a clip creation at specified date/time 5 second 27/04/2007 15:28:03 12/01/2010 0:00:00 -1 Edit
2854 PROCES CLIP_CREATION Schedule a clip creation at specified date/time 5 second 27/04/2007 15:28:03 12/01/2010 0:00:00 -1 Edit
2855 PROCES CLIP_CREATION Schedule a clip creation at specified date/time 5 second 27/04/2007 15:28:03 12/01/2010 0:00:00 -1 Edit
2856 PROCES CLIP_CREATION Schedule a clip creation at specified date/time 5 second 27/04/2007 15:28:18 12/01/2010 0:00:00 -1 Edit
2857 PROCES CLIP_CREATION Schedule a clip creation at specified date/time 5 second 27/04/2007 15:28:18 12/01/2010 0:00:00 -1 Edit
2858 PROCES CLIP_CREATION Schedule a clip creation at specified date/time 5 second 27/04/2007 15:28:18 12/01/2010 0:00:00 -1 Edit
2859 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2860 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2861 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2862 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2863 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2864 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
Apply
Cancel
New
Refresh

All jobs in process and jobs scheduled are displayed in this TAB.

The Clip Creation Job Tab:


Existing Jobs
Periodical Job
Clip Creation With Processed
Clip Creation Job
ID
Status
Name
Description
PeriodValue
Unit
Last Execution
Next Execution
Executed by machine
Terminate with error
Characterisics
2859 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2860 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2861 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2862 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2863 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
2864 ACTIVE CLIP_CREATION Schedule a clip creation at specified date/time 5 second 1/01/1900 0:00:00 12/01/2010 0:00:00 -1 Edit
Apply
Cancel
New
Refresh

Only jobs scheduled are displayed in this second TAB.

THUMBNAIL – CREATE AUTOMATIC THUMBNAILS

This jobs is created automatically if the IP Scheduler is started and for automatic thumbnail creation.

EQUIPRO – HANDLES COMMUNICATION WITH XML ENGINE

Please contact EVS for information. This job is used on specific custom applications.

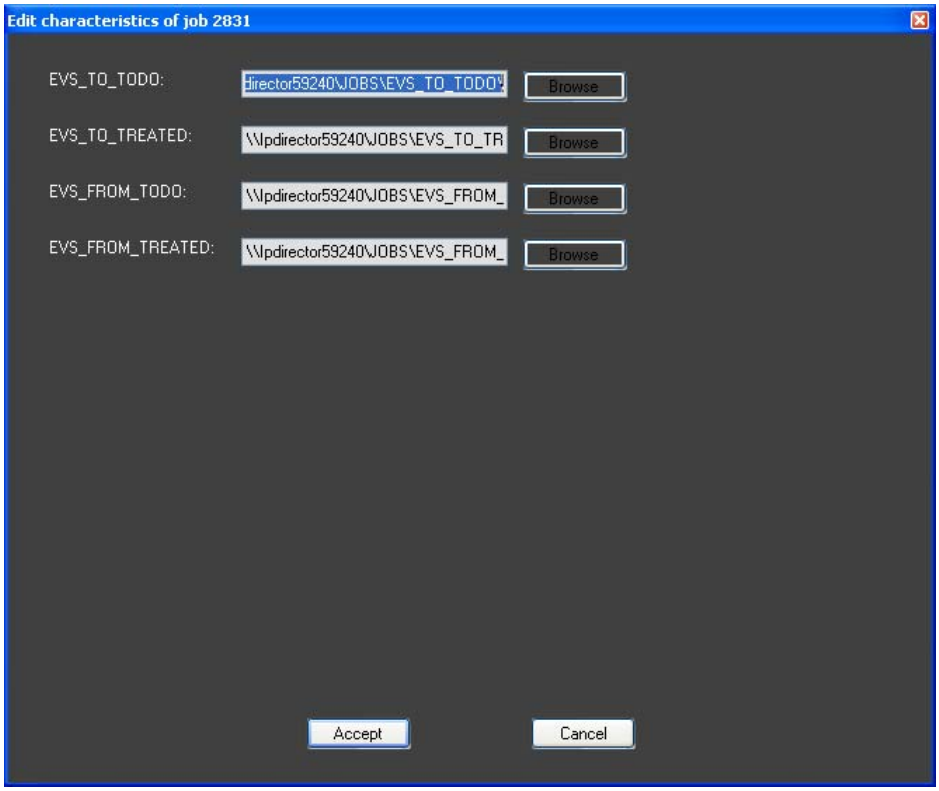
GETCLEANEDITEDL – RECEIVES THE CLEANEDIT EDIT TIMELINES

Please contact EVS for information. This job is used on specific custom applications.

Edit a job

To edit a job, simply click on the EDIT button in front of the job to edit in the 'existing jobs' list.

The edit job window is displayed.

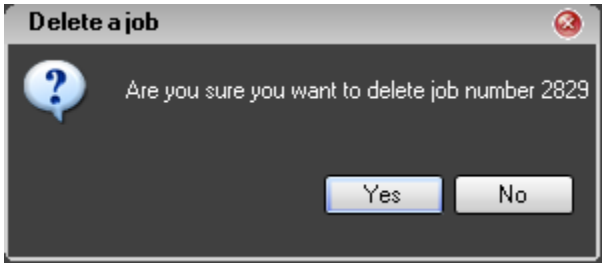


Modify the job characteristics and click on 'Accept' when done. Click on Cancel to abort the operation.

Delete a job

To delete a job, simply click on the DELETE button in front of the job to delete in the 'existing jobs' list.

A confirmation window is displayed.



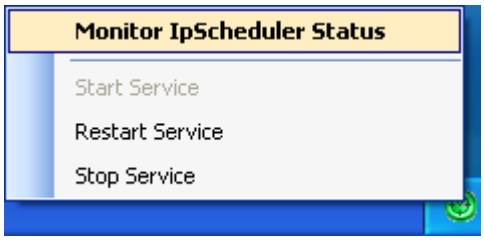
Click 'Yes' to confirm, or 'No' to cancel.

Job History

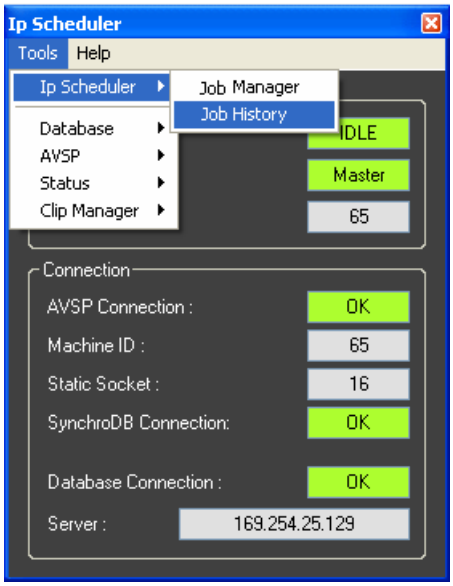
THE JOBS LIST

The history of jobs processed by the IP Scheduler is available, and allows the user to review all jobs completed, and also review the actual link to the XML file generated after an event is processed.

The Job History can be started from the IP Scheduler Status window. Right click on the IP Scheduler icon and open the IP Scheduler Status window.



In the IP Scheduler Status window, select Tools/Ip Scheduler than Job History.



The Job History window is displayed.

You can filter the job history by selecting a status in the 'status' control.

The different statuses are:

- ALL: to see all jobs
- PROCESSED: to see all jobs (scheduled clip creation) completed successfully.
- SUCCESS: to see all jobs (except scheduled clip creation) completed successfully
- ERROR: to see all jobs not completed (which ended with errors)
- WARNING: to see all jobs completed but with a warning notification.
- TIMEOUT: to see all jobs (scheduled clip creation) not completed due to a timeout issue.

REFRESH THE LIST

Click on the REFRESH button to refresh the list.

CLEAR ALL ITEMS

Click on the CLEAR ALL button to clear the history list.

Note: XML files are not deleted, they are automatically deleted when they are 2 days old.

Creating and Reinstalling a Ghost of your System

The aim of this procedure is to describe how to create a ghost image of your system and how to restore your system with an existing image.

Note: All delivering systems have a R: RESTORE partition located on the system disk. This allows you to have an image file of the C: partition, and easily restore the complete XP operating system and IP Director Software to the factory default state at any time.

How to re-install your system with an existing image

1. Reboot the system on Bootable DVD or USB key (with IPD1U) that delivered with the original system. On IPD1U, modify Boot priority in the BIOS settings in order to boot on the USB key.
2. For USB key only, select 'EVS Ghost Backup or Restore' in the menu.
3. In the ghost startup window, press [ENTER] to open the toolbar.
4. In the next window, select Local / Partition / From Image followed by [ENTER].
5. In the next window, press the [TAB] key to select the 'Look in area' and open the list by pressing the [down arrow] key. Select the source drive: D fat drive (RESTORE) then [ENTER].
6. Select the image file you want to restore then [ENTER].
7. In the next window, select the Source partition #1 then [ENTER].
8. In the next window, select the Destination drive #1 then [ENTER]. Press the [TAB] key to select the OK button, and then press [ENTER].
9. In the next window, select the Destination partition #1 then [ENTER]. Press the [TAB] key to select the OK button, then press [ENTER].
10. At the message 'Proceed with partition restore' select yes then [ENTER].
11. When the process is complete press [ENTER]. Select Quit then [ENTER], then Yes and [ENTER].
12. Remove the USB key or DVD disk and reboot the system.

How to create a new ghost image of your system

1. Reboot the system on Bootable DVD or USB key (with IPD1U) that delivered with the original system. On IPD1U, modify Boot priority in the BIOS settings in order to boot on the USB key.
2. For USB key only, select 'EVS Ghost Backup or Restore' in the menu.
3. In the ghost startup window, press [ENTER].
4. In the next window, select Local / Partition / To Image then [ENTER].
5. In the next window, select the Source drive, drive #1 then [ENTER].
6. In the next window, select the Source partition #1 then [ENTER]. Press the [TAB] key to select the OK button, then [ENTER].
7. In the next window, press the [TAB] key to select the Look in area and open it by pressing the down arrow key. Select the destination drive: D fat drive (RESTORE) then [ENTER].
8. Press the [TAB] key to select the File name area then type the file name: IPD04XXXX (where 04XXXX is the current version number). It is also recommended to provide a description of the GHOST you are creating.
9. Press the [TAB] key to select Save then [ENTER].
10. Select Compress high, then [ENTER].
11. At the message 'Proceed with partition image creation' select yes then [ENTER].
12. When the process is complete press [ENTER]. Select Quit then [ENTER], then Yes and [ENTER].
13. Remove the USB key or DVD and reboot the system.